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CCB Application Notes:

1. Character(s) preceded & followed by these symbols (À Ù) or (Ú ¿) are super- or subscripted, respectively.
   EXAMPLES: 42mÀ3Ù = 42 cubic meters
   COÚ2¿ = carbon dioxide

2. All degree symbols have been replaced with the word deg.

3. All plus or minus symbols have been replaced with the symbol +/-.

4. All table note letters and numbers have been enclosed in square brackets in both the table and below the table.

5. Whenever possible, mathematical symbols have been replaced with their proper name and enclosed in square brackets.

Naval Facilities Engineering Command
200 Stovall Street
Alexandria, Virginia 22332-2300

Naval Hospitals

Design & Construction Criteria

DESIGN MANUAL 33.02

JANUARY 1987

DESIGN MANUAL-33 SERIES UPDATED DEC 1986

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ABSTRACT

Design criteria are presented on facilities covered by category class 500 for use by experienced architects and engineers. The contents include design and construction criteria for Naval Hospitals.

FOREWORD

This design manual is one of a series developed from an evaluation of facilities in the shore establishment, from surveys of the availability of new materials and construction methods, and from selection of the best design practices of the Naval Facilities Engineering Command, other Government agencies, and the private sector. This manual uses, to the maximum extent feasible, national professional society, association, and institute standards in accordance with NAVFACENGCOM policy. Deviations from these criteria should not be made without prior approval of NAVFACENGCOM Headquarters (Code 04).

Design cannot remain static any more than can the naval functions it serves or the technologies it uses. Accordingly, recommendations for improvement are encouraged from within the Navy and from the private sector and should be furnished to Naval Facilities Engineering Command, Code 04T7, 200 Stovall Street, Alexandria, VA 22332-2300.

This publication is certified as an official publication of the Naval Facilities Engineering Command and has been reviewed and approved in accordance with SECNAVINST 5600.16.

J. P. JONES, JR.
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Commander
Naval Facilities Engineering Command

MEDICAL FACILITIES DESIGN MANUALS

DM Number	Chapter Superseded in Basic DM	Title
33.01	1,2,3,4	Medical Facilities Preliminary Design Considerations
33.02	5	Naval Hospitals - Design and Construction Criteria
33.03	--	Medical Clinics and Dental Clinics - Design and Construction Criteria

NAVAL HOSPITALS DESIGN AND CONSTRUCTION CRITERIA

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Section 1: INTRODUCTION

1.1. Scope. This manual presents criteria to design well-coordinated, cost effective, energy-efficient, safe, flexible, expandable, and low maintenance facilities, for Navy Hospitals worldwide.

1.2. Cancellation. This manual cancels and supersedes NAVFAC DM-33.2, Naval Regional Medical Centers Design and Construction Criteria of March 1983.

1.3. Related Criteria. Additional criteria related to medical facility design and construction is included in the following sources:

DM-33.01	Medical Facilities Preliminary Design Considerations
DM-33.03	Medical Clinics and Dental Clinics Design and Construction Criteria

Section 2: BASIC DESIGN CONSIDERATIONS

2.1 Scope. This section provides an overview of the unique considerations to the design and construction of Navy Hospitals. The objectives are to design and construct hospitals which are energy-efficient, safe, efficient to operated and maintained, and logically planned to allow convenient economical renovation or expansion. Brief discussions of each of these objectives follow.

2.2 Flexibility/Expandability. Hospitals must be planned, designed and constructed to permit expansion and physical change during the life of the facility.

2.2.1 Site Planning. The site shall be planned for orderly expansion of the facility and parking with minimum disruption of service.

2.2.2 Internal Planning. Floor to floor heights shall be sufficient to allow the relocation of partitions, ceilings, electrical, plumbing and HVAC equipment. Floor to floor heights shall not be more than 13 feet 6 inches (4100 mm) on typical patient bedroom areas and not more than 15 feet (4500 MR) in non-patient room areas. Interstitial space may be used only when economically justified on a life cycle cost basis.

2.2.2.1 Structural System. The structural system should be designed to permit the expansion identified during the planning of the project. The structural system should be designed to facilitate relocation of walls, ceilings, secondary electrical wiring, and secondary plumbing systems with minimum structural impact. In Radiology and Surgery, flexibility should be considered in planning for suspended or ceiling mounted medical equipment. Shear walls must be carefully placed to permit flexibility.

2.2.2.2 Heating, Ventilating and Air Conditioning. The heating, ventilating, and air conditioning systems must be designed to permit easy relocation of functions within the facility.

2.2.2.3 Plumbing and Piping. All plumbing systems shall be designed and installed to permit removal and/or relocation with a minimum amount of structural alterations to the facility. All systems, with exception of soil, waste and vent, shall be designed with zone control valves to permit future changes without shutting off major portions of the system. All pressure piping systems shall be installed overhead in easily accessible locations feeding down to point of use.

2.2.2.4 Electrical. The electrical system should permit incremental change as functions change. All electrical and communications services shall be run overhead in easily accessible locations feeding down to points of use.

2.2.3 Horizontal Expansion. The exterior walls must be designed to permit penetration or removal of the wall during expansion or renovation. Corridors and stairs should be planned for the future growth of the primary inter-departmental circulation system and the secondary circulation systems within each department.

2.2.4 Vertical Expansion. When vertical expansion is an approved growth direction for the facility, the roof shall be designed to permit vertical expansion. Roof mounted mechanical or electrical equipment should be carefully located to preclude relocation at the time of vertical expansion.

2.3 Modular Concept. Hospitals should be designed so that the architectural, plumbing, HVAC, electrical, and structural systems are designed around a "functional module." The objective of the "functional module" is to create relatively self-contained, independent zones within the facility which encourage logical functional planning and well organized, economical building systems. This compartmentalization requires that the maximum area in each smoke compartment be no more than 22,500 square feet (2100 mÀ2Ù) and may not be more than 150 feet (45 000 mm) in either direction.

2.3.1 Architectural. Within the functional module a 2 feet by 2 feet (600 mm by 600 mm) planning grid system must be used to develop the partition system, the ceiling system, and lighting layout. This grid shall be adhered to as closely as possible for layout, particularly in areas with highly repetitive rooms in outpatient clinics.

2.3.2 Structural. The structural system should be designed to permit integration into the proposed functions of the facility. The system shall be designed to permit flexibility and not inhibit the economic and convenient relocation of functions.

2.3.3 Heating, Ventilating, and Air Conditioning. Service modules located adjacent to each functional module should be used for the location of air handling fans and other decentralized HVAC equipment. Duct systems shall be designed to logically service the functional module from the service module.

2.3.4 Plumbing. The pressure plumbing and piping system shall be designed in the ceiling plenum above the area to be served. Piping systems which serve the floor above as well as the floor below are not acceptable. The soiled waste and drain systems should be designed to minimize the number of riser locations and, where possible, limit the riser locations to the service module.

2.3.5 Electrical and Communications. Electrical and communication equipment rooms shall be located in the service module. These rooms shall serve all of the electrical and communication requirements for the entire functional module.

2.4 Operations and Maintenance. The selection of equipment and building systems, as well as the functional arrangement of departments significantly impact the cost of operating and maintaining the facility. To minimize the impact, selection of materials and building equipment shall consider the maintenance impact of accessibility, reliability, responsiveness and continuity of service. The design will also strive to minimize the required staff to operate and maintain the facility.

2.5 Energy Conservation. An energy budget between 110,000 and 150,000 Btu's per square foot (1 250 000 to 1 700 000 kJ/mÀ2Ù) per year and minimum energy conservation guidelines are provided for each facility.

2.5.1 Architectural. Building orientation, massing, shading, and materials are basic energy conservation considerations. Proper shading devices should be studied to shade south facing glazing during appropriate seasons. Natural wind breaks, existing adjacent structures, or a location of the primary building axes into the prevailing wind direction may be used to reduce the wind load and cooling effect on the facility.

2.5.2 HVAC Systems. Within budget constraints the HVAC systems equipment and controls shall consume the least energy possible without jeopardizing performance. Use of energy recovery systems, variable air volume systems, energy management and control systems, economizer cycles, alternate energy sources and HVAC system shutdown during unoccupied hours, should be considered if economically justified.

2.5.3 Plumbing Systems. Energy conserving design of plumbing systems should consider use of recovered heat to preheat domestic water, solar domestic hot water, and water conservation.

2.5.4 Lighting. Lighting levels for every programmed space should be in accordance with Appendix A. The specified levels for general lighting are considered maximum, and should not be exceeded.

2.5.4.1 Natural Lighting. Strategically located natural lighting should be optimized wherever possible for general illumination. The use of natural lighting must be consistent with the overall energy conservation plan.

2.5.4.2 Task Lighting. Task lighting shall be used to improve the flexibility and management of illumination and energy requirements.

2.5.5 Attention to Details. Occupancy detectors and photo-electric cell switching shall be used to reduce the energy consumption devoted to lighting. The HVAC system shall be designed to achieve optimum fan efficiency and heat recovery. Fume hoods shall be designed with secondary make-up air and appropriate switching for shutdown when not in use.

2.6 Design for Safety. The design will comply with NFPA No. 101, Life Safety Code, and the U.S. Department of Labor Occupational Safety and Health Administration (OSHA) requirements.

2.7 Security. The hospital should be designed to maximize passive security which depends on staff awareness of the presence of unauthorized persons. This concept depends on the use of security zoning with all areas of the facility being classified as unrestricted, controlled, or restricted. The location of reception desks and control points should be designed to permit control and observation of the adjacent areas. Security personnel and equipment, such as closed-circuit TV, motion detectors, intrusion monitoring devices and lock systems, are used only to supplement the passive security provided through normal staff operations.

2.8 Fire Protection. Hospitals shall be designed in accordance with MIL-HDBK-1008. Hospitals have 100 percent automatic fire extinguishing systems, which protects occupants and property, and complements the flexibility and expandibility concepts.

2.9 Design for Physically Handicapped Access. Hospitals shall be designed for access of physically handicapped patients, staff and visitors in accordance with the minimum requirements of the Uniform Federal Accessibility Standards

2.10 Design for Seismic. All hospitals in Seismic Zones 3 and 4 shall be designed to ensure personal safety and operational capabilities following a seismic event. The requirements are intended to ensure post-seismic event operation independent of off-site utilities. Minimum detailed requirements for seismic design are in "Seismic Design for Buildings," NAVFAC P-355.

Section 3: SITE PLANNING, CIVIL ENGINEERING, AND LANDSCAPE DESIGN

3.1 Scope and Related Criteria.

3.1.1 Scope. This section provides criteria for building orientation, site circulation, parking, planning future expansions and utilities which tends to maximize functionality of the facility at minimum cost. This criteria is intended to preserve the natural character of the site; such as, land formations, trees and other vegetation, and water and drainage courses to the extent they are compatible with the hospital environment and do not excessively burden the project budget.

3.1.2 Related Criteria. The following is a list of mandatory design criteria on site planning, civil engineering, and landscape design which should be reviewed in conjunction with this section.

DM-1.03	Architectural Acoustics.
DM-1.04	Earth Sheltered Facilities.
DM-3.08	Exterior Distribution of Utility Steam, High Temperature Water (HTW), Chilled Water (CW), Fuel Gas and Compressed Air.
DM-4.01	Electrical Engineering, Preliminary Design Considerations.
DM-4.02	Electrical Engineering, Power Distribution Systems.
DM-5.03	Civil Engineering Hydrology.
DM-5.03	Civil Engineering Drainage Systems.
DM-5.04	Civil Engineering Pavements.
DM-5.05	General Provisions and Geometric Design for Roads, Streets, Walks, and Open Storage Areas.
DM-5.07	Civil Engineering Water Supply Systems.
DM-21.01	Airfield Geometric Design.
DM-23.01	Airfield Lighting.
MIL-HDBK-1008	Fire Protection for Facilities Engineering, Design, and Construction.

3.2 Site Planning.

3.2.1 Preservation of Site Amenities. Federal Regulations require protection and enhancement of the quality of the environment. The site shall be planned to respect existing natural and historic elements of the site.

3.2.1.1 Natural Water and Land Formations. Natural land formations shall be used with minimum grading to provide a completed facility compatible with the surrounding natural environment. Environmentally sensitive land formations such as natural surface water formation, and natural drainage courses shall be preserved and protected during construction.

3.2.1.2 Existing Site Vegetation. The hospital should be sited to preserve the natural vegetation indigenous to the site. To the greatest extent possible, the existing vegetation shall be preserved during construction and used to enhance the character of the interior and exterior environment.

3.2.1.3 Site Grading. The existing site character, topography and drainage patterns shall be respected when planning the site grading. A balanced cut and fill for the entire site shall be achieved as closely as possible to eliminate the need for hauling soil on or off site. Excess fill may be used for earth berms to blend the existing topography and to partially screen surface and parking areas.

3.2.1.4 Site Storm Drainage. Storm drainage should be designed to preserve the existing drainage pattern as nearly as practicable. Pre-development discharge rates should be achieved by use of retention if necessary.

3.2.2 Orientation and Circulation.

3.2.2.1 Vehicle Circulation. The circulation routes shall serve the needs of staff, outpatient, visitor, emergency, ambulance, and service traffic. Circulation routing should be prioritized in the following order: (1) Emergency/Ambulance traffic; (2) Outpatient traffic; (3) Staff traffic; (4) Visitor traffic; and (5) Service traffic.

3.2.2.2 Site Orientation for Off-Peak Shift. Entrances for use during off-peak hours shall be arranged and identified to accommodate staff, visitors, etc. The entrances shall be clearly defined to avoid intrusions into closed zones and shall also relate to parking areas and vehicular circulation to provide for personnel safety.

3.2.3 Parking. The location of the parking area(s) shall be designed with clarity and shall relate to main building entrances. The number of general purpose parking spaces shall be determined as follows:

- 59% of medical staff during peak shift
- 19% of average daily outpatient load during peak month
- 2 parking spaces per Dental Treatment Room

Parking spaces shall be distributed in proportion to the expected use near outpatient, visitor and emergency portals. Separate lots shall not be provided for staff parking. Parking lots shall be designed in accordance with NAVFAC definitive drawing 1294412. Handicapped parking spaces shall be provided as follows: 4% of first 100 spaces, 2% of next 100 spaces, and 1% of spaces in excess of 200 cars. At least two accessible parking spaces shall be provided at both the main outpatient entrance and emergency entrance. In no case shall the handicapped person be required to cross a roadway for access from the parking space to the building.

3.2.4 Utility Planning. Within the project boundary, all utilities should be underground. Underground utilities shall be coordinated with the alignment of paving, roads, and landscape to avoid conflicts with site elements. Location of utilities shall be coordinated with future expansion requirements and should not be routed through the area identified for future expansion.

3.2.5 Water Service. The medical facility shall be provided with a loop system with two or more water service lines. The service lines shall be connected to separate sections of a grid and shall be interconnected in the building with cheek valves to prevent backflow.

3.2.6 Noise/Vibration. Site planning should consider existing noise level on site from vehicular traffic, aircraft takeoff/landing traffic, industrial noise, munitions and armament testing or exercises, etc. Natural features of a specific site which have acoustical shielding qualities, e.g., trees, changes in topography, orientation etc., should be utilized to minimize objectional noise and vibration. Noise and vibration control shall be in accordance with NAVFAC DM-1.03.

3.2.7 Helipad. The helipad shall be located to facilitate safe landing and takeoffs. Helipad shall be designed for visual flight rules (VFR) in accordance with NAVFAC DM-21.01.

3.2.7.1 Fire protection. Provisions for water, foam production and dry chemical shall conform to NFPA 403, Protection of Aircraft. These provisions may be by use of portable equipment.

3.2.7.2 Access road. The access road shall be an all-weather road not less than 12 feet (3600 mm) wide with direct non-stop access to the emergency portal of the medical center.

3.2.7.3 Lighting. Lighting shall be provided as required in DM-23.1.

3.2.8 Site Graphics. The site graphics system shall form the four basic informational functions: to direct traffic, to identify, to orient, and to provide additional important information.

3.2.8.1 Access Routes. Signs indicating the location of the hospital shall be located on all access routes at appropriate distances from the highway network. Directional signs shall be placed at each decision point between the access route and the facility.

3.2.8.2 On-Site Traffic Signs. Signs shall be provided identifying the facility at all major site entry points. Directional signs shall identify routes to the parking lots, visitors, supply, outpatient, and emergency portals. Directional signs shall be placed at each decision point along the route.

3.2.8.3 Entrance Signs. Identification signs shall be provided at appropriate visual locations for the visitors, outpatient, emergency, and supply portals.

3.2.8.4 Parking, Signs. All parking areas shall identify restrictions, if any, on those permitted to park in the lot or structure. Signs shall be provided along roadways or drop-off zones where parking is not permitted.

3.2.9 Exterior Benches. Exterior benches shall be located where waiting for buses, taxi cab and automobile pickup is frequent.

3.3 Site Expandibility.

3.3.1 Facility. The design should allow for future expansion of each functional zone as shown on Table 1.

Table 1
Potential Growth

Zones	% Expansion Potential
Outpatient	100%
Administrative	25%
Support	25%
Inpatient	25%
Intensive Treatment	25%

3.3.2 Parking. The site should be planned to permit future expansion of parking by 25 percent. Future parking requirements are not to be used to justify parking structures for current projects.

3.3.3 Site Circulation. Site circulation should be designed for projected expansion without major disruption. Roads should be designed with clearances to permit lane expansion without relocation of utilities or major landscaping features.

3.4 Maintenance.

3.4.1 Roads and Parking.

3.4.1.1 Paving Materials. Concrete shall be used at receiving entrances, loading areas, dumpster pads, motorcycle parking areas and liquid oxygen bulk storage areas. Roadway paving structure (sections) should conform to American Association of State Highway and Transportation Officials (AASHTO) H-16 Loading Classification. Parking lot paving structure (sections) shall conform to AASHTO H-10 Loading Classification.

3.4.1.2 Curbs and Gutters. Curbs and gutters shall be utilized where roadway and parking slope approach maximum slope criteria to ensure positive control of drainage. Curbs and gutters shall not be utilized for medians in parking lots in climates with significant snowfall to facilitate its removal.

3.4.1.3 Wheelstops. Projecting "wheelstops" shall not be utilized in parking areas. They are high maintenance fixtures and when not maintained can be hazardous to personal property.

3.4.1.4 Snow Removal. Design of roadways and parking lots in climates with significant snow fall shall provide for piling and/or contiguous storage of plowed snow. A minimum 4 feet (1200 mm) wide stabilized shoulder shall be provided for all roadways.

3.4.2 Walkways. Slope criteria for walkways shall be the same as roadways with a minimum slope of 1/4 inch per linear foot (2 percent). Paved walkways and aprons at entrances to buildings shall be designed with a slope greater than 2 percent but less than 5 percent away from entrance(s) to prevent surface storm water from entering building without obstructing the access of handicapped.

3.4.3 Bulk Oxygen Storage Pads. Bulk oxygen storage pads shall not be constructed of petroleum based material including bituminous and/or asphaltic paving or expansion joint materials and fillers in concrete paving. Concrete curbs shall be provided around bulk oxygen/conversion pads to contain oxygen spills or leakage accidents.

3.4.4 Water Distribution. Water distribution system designs shall include interconnected dual water service. Distribution lines shall be located in unpaved areas to facilitate ease of access for maintenance. Water meters shall be installed at each water service entrance to facilitate control, isolation, and management of the water supply.

3.4.5 Irrigation Systems. Sprinkler heads in irrigation systems shall be constructed of vandal resistant materials with heads solvent welded to prevent their removal. The system shall have approved backflow prevention devices at main water connections.

3.5 Seismic. Seismic design shall be in accordance with NAVFAC P-355.

3.5.1 Soil Considerations. Sites should be avoided in areas subject to landslides, areas where soil liquefaction is likely to occur, or areas subject to tsunami damage.

3.5.2 Reserve Utilities Planning. Utility lines connected to the hospital may be disrupted during an earthquake disturbance. Secondary or backup utilities must be developed to ensure continued operation of essential areas.

3.5.2.1 Steam Service. Steam lines shall be adequately valved. Steam lines in tunnels/trenches shall be provided with lateral anchorages.

3.5.2.2 Gas Distribution. Gas connection to facilities shall be adequately valved so that breaks in lines may be isolated after a seismic disturbance. Gas distribution networks for buildings in Seismic Zones 2, 3 and 4 shall include an above ground valved and capped stub. All facilities in Seismic Zones 3 and 4 shall be provided with an earthquake-activated gas shut-off valve.

3.5.2.3 Water Service. In Seismic Zones 3 and 4 a minimum of two independent sources of water supply are required. One source shall be on-site storage. Portable water reserve storage shall be designed for 7 days' supply after an earthquake disturbance. Water storage for fire protection shall be sized in accordance with MIL-HDBK-1008.

Section 4: ARCHITECTURE

4.1 Scope and Related Criteria.

4.1.1 Scope. The purpose of this section is to provide architectural criteria for the design of Navy Hospitals.

4.1.2 Related Criteria. The following is a list of mandatory design criteria on architecture which should be reviewed in conjunction with this section.

NAVFAC DM-1.02	Materials and Building Components
NAVFAC DM-1.03	Architectural Acoustics
NAVFAC DM-1.04	Earth Sheltered Facilities

4.2 Architectural Design.

4.2.1 Exterior Elements. Mechanical, electrical, transportation and equipment items which must be located on the exterior of the facility shall be integrated elements of the design. These elements include: air intake/ exhaust vents, exterior lights, utility connections, plumbing vents, fuel tank vents, liquid oxygen tanks, transformers, trash compactors, containers and loading docks.

4.2.2 Materials. Selection of materials shall be based on appropriateness, availability, economy, and appearance. Economy is based on initial cost and maintenance cost.

4.3 Flexibility, Expandibility, Modularity.

4.3.1 Building Modules. Hospitals shall be designed using a modular building concept. The building module used shall consider the fire protection requirements which require that each level be subdivided into Smoke Zones of no larger than 150 feet by 150 feet (45 000 mm by 45 000 mm).

4.3.1.1 Functional Module. The functional module is the area of each building module which is normally occupied. A 2 feet by 2 feet (600 mm by 600 mm) grid shall be established for the coordination of partitions and the ceiling system. This grid shall be adhered to in layout of the programmed net space.

4.3.1.2 Service Module. The service module contains the HVAC equipment, plumbing main runs and module shut-off valves, electrical distribution panels, communication equipment and distribution panels, and fire protection controls to serve the functional module. The purpose of the service module is to remove building service functions from the functional module to allow increased flexibility and reduce maintenance activity in the fuctional module.

4.3.2 Departmental Expansion. The facility shall be planned for logical growth in each of the functional zones. The corridor system shall be planned to permit expansion without major disruption of the existing functions.

4.3.3 Exterior Walls. Exterior walls shall be non-load bearing to afford the greatest potential for horizontal expansion.

4.3.4 Roofs. Where vertical expansion is approved and the structural system is designed for that expansion, the roof system shall be designed to permit construction while maintaining a waterproof surface over the occupied existing area. The roof shall be designed to allow the construction of walls and columns without destroying the integrity of the roof. The structure of the roof shall be designed for the live load of the potential use.

4.3.5 Radiology Planning. Rapidly changing technology and techniques related to X-ray and imaging equipment and methods continue to cause significant difficulties in precisely designing, engineering, and constructing facilities with assurance that the users will have the most up-to-date diagnostic and treatment capabilities. A federal standard X-ray room design which provides a T-trench, a 10 feet (3000 mm) high ceiling, a universal overhead tubehead support system, and standard utilities shall be used.

4.3.6 Laboratory Planning. Laboratories shall be planned for maximum flexibility in making alterations. A moveable movable casework system shall be used in all areas of the laboratory. Utilities shall be planned for the laboratory to serve the casework system at all points. A 6 feet (1800 mm) by 6 feet (1800 mm) ceiling grid of electrical outlets and water outlets shall be provided in the ceiling of the laboratory. Cut-off valves shall be provided at appropriate locations to permit relocation without shutting off the entire utility system.

4.4 Energy Conscious Design.

4.4.1 Exterior Envelope. The exterior walls, windows and roof should be designed with the appropriate penetration for glazing and with the appropriate "U" value for the climate. Double glazing shall be provided for all exterior glazed areas. The "U" value for roof and wall assemblies should be analyzed with respect to the overall energy budget. The "U" value must not be more than the values indicated in Table 2.

Table 2

U-Values BTU/(hr)(sq ft)(F)

Gross Wall	WALL	ROOF	FLOOR	SLAB on GRADE
Heating Deg Days				
Less than 1000	0.38	0.15	0.05	0.10	0.29
1000-2000	0.38	0.15	0.05	0.08	0.24
2001-3000	0.36	0.10	0.04	0.07	0.21
3001-4000	0.36	0.10	0.03	0.07	0.18
4001-6000	0.31	0.08	0.03	0.05	0.14
6001-8000	0.28	0.07	0.03	0.05	0.12
Over 8000	0.28	0.07	0.03	0.05	0.10

Degree-Days values from NAVFAC P-89 shall be used.

4.4.2 Vestibules. Vestibules and/or windshields shall be provided at all major entries.

4.5 Security.

4.5.1 Portal Controls. Entrance to the facility shall be limited to four types of portals: the visitor portal, the outpatient portals, the emergency portals, and the supply portals. Each portal shall be under the visual surveillance of an employee designated to control the public areas surrounding the portal area. When the surveillance is not provided, the portal entries shall be locked. All other entries and exits to the facility required for life safety shall be locked from the outside and provided with an alarm system and appropriate signage indicating that the alarm will sound if the emergency exit is used.

4.5.1.1 Outpatient Portals. Multiple entries are permitted for outpatient portals where the portal is required to allow additional patient drop-off or parking closer to the outpatient clinics.

4.5.1.2 Supply Portals. Two supply portals may be provided if the dietary department and the supply department are not located adjacent to each other.

4.5.1.3 Emergency Portals. Two emergency portals are required to permit ambulatory emergency patient entry and ambulance patient entry.

4.5.1.4 Visitor Portal. Only one visitor portal shall be provided.

4.5.2 Corridor Zoning. Corridors shall be zoned to control the type of access desired in each portion of the building. All areas of the facility shall be zoned as unrestricted, controlled, or restricted zones.

4.5.2.1 Unrestricted Zones. Entrance to the building through the visitor's, outpatient's, or emergency portals must lead into an unrestricted zone. Unrestricted zones, while supervised visually by reception and control personnel, do not restrict the flow of persons entering the zone. Departments that may have unrestricted access of persons would include outpatient clinics, the emergency room, the pharmacy, the main lobby (including public areas such as toilets, gift shops, snack bars, etc.), and meeting rooms. All unrestricted zones of the building shall be connected without having to pass through controlled or restricted zones.

4.5.2.2 Controlled Zones. Controlled zones of the facility require a valid purpose for admission to the zone. Controlled zones are usually limited to portions of departments such as the surgical suite, the delivery suite, the intensive care unit, and supply departments. Each controlled zone requires limitation of persons entering the area for administrative control of the operation. Controlled zones must not be planned to be used as passage from other areas of the facility.

4.5.2.3 Restricted Zones. Entrance to restricted areas is essentially limited to staff. Restricted zones are usually limited to portions of departments such as the surgical suite, delivery suite, the pharmacy, radiology or supply departments. Each restricted zone requires limitation of

personnel entering the area due to medical technique as in surgery or administrative regulation such as narcotics storage. Restricted zones must not be planned to be used as a passage from other areas of the facility.

4.5.3 Key System. The key and lock system shall be based on several levels of master keys. Masters shall be provided for departments. Grand masters and great grand masters shall be provided for functional zones and modules. Master keys shall not be capable of opening pharmacy, computer areas, and medicine stations.

4.5.4 Physical Security Protection and Detection. The facility shall be analyzed to determine potential targets for violence or theft due to the value of supplies, money, or equipment held within each space. Table 3 indicates the minimum security provisions for protection and detection for the areas listed.

Table 3
Protection and Detection Systems

Department/Area	Security Provisions[*]
Pharmacy	1, 2, 3, 4, 5, 6, 7, 8
Collection Agent	1, 3, 4, 5, 6, 7
Radiology Silver Recovery	3, 4, 5
Bulk Storage Rooms	3, 4, 5
Medical Records	1, 4
Commanding Officer	4

[*] Security Provisions are described in the following subparagraphs.

4.5.4.1 (1) Roll-up Shutters. Roll-up lockable shutters bearing Underwriters' Laboratories' labels for a 1-hour rating shall be provided at each issue window. Examples of issue windows include pharmacy dispensing, central processing issue, film file rooms, etc.

4.5.4.2 (2) Walls. All bulk controlled substance drug storage vault side walls shall be equivalent to brick or masonry construction.

4.5.4.3 (3) Doors and Locks. Doors shall be either solid core wood or hollow steel construction, 1-3/4 inch (45 mm) thick. Dutch or half doors are unacceptable. Doors shall have nonremovable pins. If a door is not set in a steel frame, one of these locks must be a rim lock having dead bolt interlocking with strike. Doors set in steel frames must be fitted with a mortise lock with a deadlocking feature. The lock must be automatically deadlocking on door closure, requiring re-entry to the room with key or lock combination and allowing egress from the room by turning the inside knob. The day lock on the main door must be an automatically locking, combination access lock with a minimum 3/4 inch (20 mm) dead bolt and inside thumb latch.

4.5.4.4 (4) Other Room Access. Ceiling overhead areas which enable entry into a secure room from an unsecured room shall be barricaded by the installation of a suitable partition or ceiling which deters "up and over" access.

4.5.4.5 (5) Intrusion Detectors. An intrusion detection alarm system detects entry into the room and broadcasts a local alarm of sufficient volume to induce an illegal entrant to abandon a burglary attempt. Intrusion detectors shall have: (1) An internal automatic charging DC standby power supply with primary AC power operation, (2) A remote, key operated activation/deactivation switch installed outside the rooms and adjacent to the room entrance door frame, (3) A local alarm level of 80 dB (min) to 100 dB (max) up to 100 feet (30 000 mm) from the protected room, (4) An integral capability for the attachment of wiring for remote alarm and intrusion indicator equipment (visual or audio).

4.5.4.6 (6) Service Window. Service window shall be constructed of laminated safety glass.

4.5.4.7 (7) Special Key Control. Room door lock keys and day lock combinations, where applicable, are special keys and shall not be mastered.

4.5.4.8 (8) Safes and Vaults. Drugs classified as schedule I or II controlled substances under the Controlled Substance Act of 1970 must be stored in safes or vaults which conform to the following specifications:

4.5.4.8.1 Safes. Safes must weigh no less than 750 pounds (340 kg), have a vault wall at least 1/2 inch (13 mm) thick with either a door of 3-1/2 inch (90 mm) steel or 1-1/2 inch (40 mm) solid cast manganese steel with 6 inch (150 mm) return flanges plus 1-1/2 inch (40 mm) of plate steel.

4.5.4.8.2 Vaults. Where bulk quantities or controlled substance handling requirements deem that safes may be impractical, vaults shall be used. The Type I vault is not as formidable and permanent a structure as the Type II concrete vault, and therefore schedule I and II controlled substances shall not be stored on open shelving within the Type I vault. Only Type II vaults shall be provided.

4.5.4.8.3 Type I Vault. Enclosures constructed of steel security screen, woven mesh, .047 inch (1.2 mm) wire diameter alloy #304 stainless steel, with tensile strength of 1,600 pounds per lineal inch. Mesh shall be 10 by 10 per inch with main frame and subframes of 13 gauge alloy #304 steel. In rooms with dropped ceilings, the vertical frames and mesh walls must meet the actual ceiling or a security mesh ceiling installed below the false ceiling.

4.5.4.8.4 Type II Vault. Constructed of walls, floors, and ceilings of a minimum of 8 inch (200 mm) reinforced concrete or other substantial masonry, reinforced vertically and horizontally with No. 4 (13 mm) steel rods tied 6 inch (150 mm) on center. Doors shall meet Federal Specification AA-D-600B class 5 criteria. In addition, a day gate shall be provided.

4.5.5 Closed Circuit TV Monitoring Systems. If approved, a closed circuit TV system shall be provided which monitors the parking lots, visitor entrances, outpatient entrances, service entrance, emergency entrance, pharmacy entrance, and collection agent (cashier). Monitors for these areas shall be provided in the security office.

4.5.6 Crawl Spaces and Pipe Chases. Underground spaces for utilities and unexcavated areas, pipe chases, and elevator service ladders shall be designed to prevent access to the facility from outside.

4.6 Maintenance.

4.6.1 Interior Partitions.

4.6.1.1 Overloading Resistance. Interior partitions shall be designed to support minimum vertical loads of 100 lbs per linear foot (1.5 kg/mm) applied 6 inches (150 mm) from face of the partition.

4.6.1.2 Flexure Resistance. Partitions at all door jambs shall be reinforced with subframes, double framing, or "solid slushing" to provide resistance to stresses and impact of doors over 3 feet wide (900 mm). Partition runs should not exceed 18 feet (5400 mm) without cross partitions, corners, pilasters, or rigid bracing.

4.6.2 Access for Maintenance. The location and size of access panels shall be coordinated among the design disciplines. The minimum size of access panels shall be 2 feet by 2 feet (600 mm by 600 mm) and shall be integrated into the ceiling, partition, floor, or furring system in which they are located. Each access panel, door, or device shall be provided with a tag which clearly identifies the item and system(s) for which access is provided. Access for maintenance in clinically sensitive areas such as operating and delivery rooms shall be provided outside of the space in question.

4.7 Handicapped Accessibility. All medical facilities shall be accessible where accessible is defined as compliance with the Uniform Federal Accessibility Standards published in the Federal Register on 7 August 1984 (49 FR 31528).

4.7.1 Corridors. The width of corridors shall be a minimum of 8 feet (2400 mm) clear width for inpatient occupancy and 5 feet 6 inches (1650 mm) clear width for outpatient occupancy. Ramps should be avoided.

4.7.2 Toilets. Public toilet facilities designed for wheelchair access shall be provided within a travel distance not to exceed 150 feet (45 000 mm), at least at the main outpatient entrance and the emergency entrance, and not less than one per floor.

4.7.3 Public Telephones. At least one accessible public telephone shall be located at the outpatient main entrance, and the emergency entrance.

4.7.4 Drinking Fountains. An accessible drinking fountain or water cooler shall be provided within a travel distance not to exceed 150 feet (45 000 mm). The drinking fountain most adjacent to accessible toilet rooms should be designed accessible.

4.8 Shielding.

4.8.1 Acoustical and Vibration Shielding. Sound transmission limitation in patient areas shall adhere to Table 4. Objectionable noise and vibration emanating from vacuum pumps for housekeeping systems or pneumatic tube systems shall be pad mounted with vibration isolation from the structure. All piping and duct connections shall include flexible connections to prime equipment. Additionally all such vacuum compressor equipment shall be located remote from programmed spaces or provided with special acoustical shielding.

4.8.2 Radiation Shielding. Design of radiation shielding shall conform to the requirements and criteria published in the current edition of Report Nos. 33 and 49 of the National Council on Radiation Protection (NCRP). Radiation protective shielding shall be provided for radioisotope laboratories, all diagnostic radiology treatment rooms, computer assisted tomographic rooms, angiographic rooms, cardiac-catheterization rooms, nuclear medicine treatment and scanning rooms, hot laboratories, counting rooms, radiation storage rooms, radioactive waste storage rooms, and therapeutic radiology rooms, as well as radioactive decontamination rooms.

4.8.2.1 Protective Materials. Dry-type shielding systems (lead lined lath, dry wall, etc.) shall be provided to facilitate flexibility and timing of the final construction of radiology spaces.

4.8.2.2 Waste Systems. All waste lines and systems serving nuclear laboratories, clinical areas, isotope laboratories, radioactive decontamination suites, etc. shall be separate, independent, discrete waste systems which include shielded holding and dilution tanks before allowing discharge into site sanitary or combined sewer systems.

4.9 Safety.

4.9.1 Fixed Ladders and Catwalks. Any work station or point of accessibility that is not accessible from a 6 foot (1800 mm) portable ladder shall be provided with a fixed ladder and/or catwalk system.

4.9.2 Floors. Floor surfaces where saddles, thresholds, and expansion joints occur shall be designed not to impede pedestrian movement. Where such elements occur, they shall be accessible to the handicapped.

4.9.3 Head Room Clearances. Eighty inches (2000 mm) head clearance shall be maintained for all suspended equipment.

4.9.4 Toe Rails and Toe Boards. Every open-sided floor, platform, stairway, or ramp above an adjacent floor or ground level shall be guarded with a toe rail or toe board along with stair railing wherever, beneath the open sides, persons can pass or there is equipment with which falling materials could create a hazard. A toe board shall be 4 inches (100 mm) nominal in vertical height from its top edge to the level of the floor, platform, or ramp.

Table 4
Sound Transmission Limitations

	Airborne Sound Transmissions Class (STC)[a]		Impact Insulation, Class (IIC)[b]
	Partitions	Floors	Floors
Patients, rooms to patients' rooms	45	45	45
Public space to patients' rooms ÀcÙ	45	45	45
Service areas to patients' rooms	50	50	50
Examination room to adjacent spaces	45	45	45
Doctors offices to adjacent spaces	45	45	45
Treatment spaces/areas to adjacent spaces/areas	45	45	45
Duty rooms to adjacent spaces	45	45	45
Toilet/Bath room to adjacent spaces	45	45	45
Conference rooms to adjacent spaces	45	45	45
Computer Data Processing rooms to adjacent spaces	50	50	50
Mechanical rooms to adjacent non-mechanical spaces	55	55	55

[a] Sound transmission class (STC) shall be determined by tests in accordance with methods set forth in ASTM Standard E90 and ASTM Standard E413.

[b] Impact insulation class (IIC) shall be determined in accordance with criteria set forth in HUD FT/TS-24, "A Guide to Airborne, Impact and Structure Borne Noise Control in Multi-Family Dwellings."

[c] Public space includes lobbies, dining rooms, recreation rooms, treatment rooms, and similar spaces.

4.10 Transportation.

4.10.1 Elevators. All elevators in hospitals with the exception of elevators planned exclusively for use in outpatient clinics, shall be hospital-shaped elevators. Elevators used exclusively for outpatient clinics may be designed as passenger elevators. Electric traction elevators should be provided; however, hydraulic powered elevators may be considered where the travel is less than 50 feet (15 000 mm) or when overhead clearance is limited. Table 5 indicates the parameters for selection of elevator speed and type. Elevator cabs for hospital-shaped elevators shall be rated at not less than 4500 lbs. (2000 kg) capacity. The cab shall not be less than 5 feet (1500 mm) wide, 7 feet 6 inches (2250 mm) deep and have not less than 3 feet 8 inches (1100 mm) two-speed door. Passenger-shaped elevators for outpatient clinics shall be rated at not less than 3500 lbs. (1600 kg) capacity. Elevators shall be selected and located to permit transportation of 10 percent of the anticipated visitor, staff, and ambulatory patient load within a 5-minute peak period. The number of elevators required will be selected by the interval time between elevators. The interval time shall be between 40 and 55 seconds for the expectant 5-minute peak period. Elevators provided as service elevators will be selected to transport the most intense hourly traffic demand with an interval of approximately 50 seconds.

4.10.1.2 Dedicated Elevators. Dedicated elevators may be considered for transportation of patients, staff or material between two distinct points when the service is required to satisfy critical functional relationships which may not be satisfied by locating departments adjacent to each other. Examples of such critical relationships are the emergency suite to the surgical suite and the delivery suite, and the surgical suite to the intensive care unit. The controls of dedicated elevators shall prevent the frequent use of the elevators for other purposes.

Table 5
Elevator Speed and Type

Floors Served	Speed	Type
	Electric Traction Elevators	
2-4	200 FPM (1 m/sec)	Geared
5-8	350 FPM (1.8 m/sec)	Gearless
9-12	500 FPM (2.5 m/sec)	Gearless
13 Up	700 FPM (3.6 m/sec)	Gearless
	Hydraulic Elevators	
2-3	100 FPM (0.5 m/sec)	
3-4	150 FPM (0.76 m/sec)	

4.10.2 Automated Material Distribution Systems. The selection of automated material distribution systems to distribute bulk materials, STAT materials, and other special movement requirements may be made only after detailed analysis. In no case will an automated distribution system be selected which does not allow use of components of the system for manual distribution during times when the system is being maintained.

4.10.3 Pneumatic Trash Systems. Pneumatic trash systems or gravity and pneumatic trash systems shall not be provided unless economically justified. Pneumatic trash systems may be considered only for one point of origin and one point of destination such as from central sterile to the trash compactor.

4.10.4 Gravity Trash or Linen Chutes. Gravity trash or gravity linen chutes may be considered within the context of the entire bulk material movement system. When a gravity chute system is used, separate chutes shall be provided for trash and linen. The chutes will be designed in accordance with NFPA 82.

Section 5: STRUCTURAL

5.1 Scope and Related Criteria.

5.1.1 Scope. The purpose of this section is to provide structural criteria for the design of Navy Hospitals.

5.1.2 Related Criteria. The following is a list of mandatory design criteria on structural engineering which should be reviewed in conjunction with this section.

NAVFAC DM-2.01	Structural Engineering, General Requirements
NAVFAC DM-2.02	Structural Engineering, Loads
NAVFAC DM-2.03	Structural Engineering, Steel Structures
NAVFAC DM-2.04	Structural Engineering, Concrete Structures
NAVFAC DM-2.09	Masonry Structural Design For Buildings

5.2 Structural Engineering.

5.2.1 Design Live Loads. Live loads will be provided for each programmed area in accordance with Appendix A. and NAVFAC DM-2.02.

5.2.2 Design Dead Loads. Dead loads shall in accordance with NAVFAC DM-2.02.

5.2.3 Expansion and Control Joints. Expansion joints shall be provided for each 200 feet (60 000 mm) of structure, slabs on-grade, or paving. Control joints or "planes of weakness" shall be provided 20 feet (6000 mm) on centers in concrete paving and slabs on-grade.

5.2.4 Concrete Slabs on Grade. Control joints shall be provided in concrete slabs on-grade to isolate columns from slabs. Expansion joints shall be provided in exposed masonry work every 100 feet (30 000 mm).

5.2.5 Finished concrete. All exposed finished concrete floors shall be "hardened."

5.2.6 Floor Slabs Slope. Floor slabs with floor drains shall be designed with a minimum slope of 3/8 inch per foot (3 percent) to drains.

5.3 Flexibility/Expandability/Modularity.

5.3.1 Structural Bay Sizes. The structural bay size and structural system shall complement the 2 feet by 2 feet (600 mm by 600 mm) grid system and the building module size. Structural bay sizes of 18 feet by 30 feet (5400 mm by 9000 mm) and 30 feet by 30 feet (9000 mm by 9000 mm) are recommended for evaluation.

5.3.2 Planning for Flexibility. The structural system selected shall be planned to permit a high degree of flexibility in the relocation of functional areas of the functional module as well as the relocation of utility systems in the ceiling plenum. Structural columns shall be located in uniform pattern.

5.3.3 Roof Design. Where vertical expansion is approved, the structure shall be designed to permit vertical extension of the columns without destroying the integrity of the roof. The structure of the roof shall be designed for a live load of the potential use. Roof membranes applied to the structural system shall be removable without requiring temporary shutdown of the occupied floor below.

5.3.4 Sleeving and Shafting for Flexibility. Sleeves shall be provided for utility services penetrating floor systems. Each sleeve shall have a lip which extends at least 1/2 inch (13 mm) above the penetrated floor to retard the flow of moisture to areas below. Two spare sleeves per floor shall be provided in each service module for future needs.

5.4 Seismic Engineering.

5.4.1 Level of Resistance. The minimum level of earthquake resistance shall be that provided by construction in accordance with NAVFAC P-355. Hospital buildings will normally require a higher level of resistance than provided by sole application of P-355. The following levels of seismic resistance are defined with respect to operational mission, disaster preparedness and medical post-earthquake needs:

5.4.1.1 Level I. Basic Life Safety. This level applies to existing facilities. The essential requirement is to reduce the likelihood of injury or death to personnel by providing a structure which resists collapse. This is the minimum requirement of seismic upgrade or alteration projects for existing hospitals. Structural systems for existing hospitals will be considered acceptable if they are in substantial conformance with seismic design requirements in NAVFAC P-355. Substantial conformance is defined as that structure having a lateral resistance equal to 80 percent of that seismically required; with supports for mechanical, electrical, architectural and other nonstructural elements spaced at a distance no greater than 125 percent of the spacing required by NAVFAC P-355. When an existing structural system does not meet these requirements, it will be strengthened as required by NAVFAC P-355 seismic design requirements. Alternately, the existing system may be analyzed for ultimate resistance to collapse using the response spectrum approach, based on the forces from an earthquake with a 50 percent probability of being exceeded in 50 years. Anchorage and bracing of mechanical, electrical, architectural and other non-structural supports must also meet this requirement. With this class of structures, the health facility may require evacuation, after an earthquake. No specific time is specified for reoccupancy and utilization for this class of structure.

5.4.1.2 Level II. Partial Operation. This level applies to new and existing hospitals where structural systems meet seismic design requirements based on NAVFAC P-355. These requirements will apply to new facilities to be located in seismic zone 1 and for existing facilities in seismic zone 2. If an existing structural system is deficient, seismic strengthening will be required to meet the seismic zone requirements. To meet this seismic resistance level, a facility must substantially conform to the requirements of NAVFAC P-355 and be usable for continued medical care following a zone earthquake of expected severity. However, the facility may be rendered inoperative by structural damage due to an earthquake of greater than expected

severity. Also, surgery, labor, delivery, nursery, intensive care, emergency, central material supply, radiology, clinical laboratory, supply storage, and nuclear medicine must fully meet the seismic design requirements of this level. In these specified areas, fixed equipment, vertical transportation and utilities will be anchored, braced and/or tied down to fully resist design seismic forces and, if damaged or disrupted, will be restorable within several days. Outside assistance will supplement on-site care of inpatients and disaster victims while restored portions of the facility are used and temporary expansion of emergency facilities is implemented.

5.4.1.3 Level III. Selected/Full Operation. This level provides higher seismic resistance capability than "Partial Operation." It applies to new additions with key health care components (selected) and to a complete new hospital (full). This level of seismic design will be based on the maximum probable seismic ground motion, with a 10 percent probability of exceedance in a 50-year period, that is predicted to occur at the site. These requirements will apply to facilities located in seismic zones 2 and above for new construction. Health facilities in this category of seismic resistance will be so designed to be prepared for post-earthquake operations and capable of restoration of minor damage within several hours following the maximum probable seismic ground motion. All utilities and equipment must be prepared for isolation and/or restoration with minimum work if damage occurs. Provision for temporary emergency connection or augmentation of potable water, sanitary sewers and fuel will be considered.

5.4.1.4 Level IV. Complete Operation. This is the maximum level of seismic design for Navy hospitals. Seismic design will be based on a maximum probable earthquake occurring at the site, with a 10 percent probability of exceedance in a 100 year period. These requirements will apply to new construction located in seismic zones 3 and above. The entire facility will be designed to meet this level of seismic resistance. The new facility will be designed for complete continuity of operation, for medical care to inpatients and for receiving earthquake casualties. Utilities and plant systems must provide high reliability. Isolation and damage control will be provided to completely restore the facility to a near normal interior environment within several hours. All site utilities must be completely restorable within a 4-day period.

5.4.2 Importance Factor. The minimum importance factor for hospitals shall be I=1.5 and for other medical facilities, I=1.25.

5.4.3 Structural Planning. A symmetrical configuration of the structural framing system with the proper placement and distribution of the lateral force-resisting elements throughout the building will produce a structure with the optimal seismic resistance. Proper placement of columns, shear walls, and wall openings enhance a building's resistance to lateral forces and horizontal torsional moments. For better seismic resistance, buildings with irregular shapes (L, U, T, E, H, or cross), setbacks, or other unusual features shall be avoided. Continuous and direct paths for the transmittal of lateral forces to the foundation must be ensured.

Section 6: HVAC ENGINEERING

6.1 Scope and Relate Criteria.

6.1.1 Scope. The purpose of this section is to provide heating, ventilating, and air-conditioning criteria for the design of Navy Medical Facilities.

6.1.2 Related Criteria. The following is a list of mandatory design criteria on beating, ventilating, and air-conditioning engineering which should be reviewed in conjunction with this section.

NAVFAC DM-3.03	Heating, Ventilating, Air Conditioning, and Dehumidifying Systems
NAVFAC DM-3.06	Central Heating Plant
NAVFAC DM-3.08	Exterior Distribution of Utility Steam, High Temperature Water, Chilled Water, Fuel Gas, and Compressed Air
NAVFAC DM-3.10	Noise and Vibration Control of Mechanical Equipment
NAVFAC DM-3.16	Thermal Storage Systems

6.2 HVAC Engineering.

6.2.1 Indoor Design Conditions. HVAC engineering design criteria for individual rooms shall be in accordance with Appendix A.

6.2.1.1 Minimum Air Changes. The minimum air changes indicated in Appendix A shall be required for all areas.

6.2.1.2 Minimum Outside Air. The minimum outside air requirement indicated in Appendix A is the minimum outside air changes per hour required to meet ventilation requirements at design conditions.

6.2.1.3 Outside Exhaust Requirements. Where outside exhaust is required by Appendix A, 100 percent of the supply air shall be exhausted directly to the outside.

6.2.1.4 Temperature. Summer design temperatures should be used for winter conditions except when a room is located on an exterior wall or has a roof directly overhead.

6.2.2 Outdoor Design Criteria. NAVFAC P-89, Engineering Weather Data, shall be used to determine the outdoor design conditions. For locations not shown in NAVFAC P-89, the design conditions may be obtained from the Naval Facilities Engineering Command through the Engineering Field Division. The criteria shall be used as follows:

6.2.2.1 Non-Critical Areas. For all rooms or spaces except operating rooms, delivery rooms and nurseries, use the 97-1/2 percent criteria for heating and the 2-1/2 percent criteria for cooling.

6.2.2.2 Critical Areas. For operating rooms, delivery rooms and nurseries, use the 99 percent criteria for heating and the 1 percent criteria for cooling.

6.2.2.3 Cooling Towers. For selection of the cooling towers, use the 1 percent criteria applied to the entire facility.

6.2.3 System Selection.

6.2.3.1 Non-Critical Areas. Terminal reheat, variable air volume, or multizone HVAC systems shall be designed for all non-critical areas of a Navy hospital. Variable air volume systems, if selected, shall use industrial grade controls.

6.2.3.2 Critical Areas. Constant air volume systems shall be used for critical areas of a Navy hospital including: the surgical suite the intensive and coronary care units, the delivery suite, invasive procedure rooms such as cystoscopy and the cardiac catheterization room, the nursery, the autopsy suite, medical laboratory, and prosthetics laboratory.

6.2.4 Energy Budget. The energy budget is based on weather zones as shown on Table 6. For purposes of calculating energy budgets, the conversion factors shown on Table 7 shall be used.

Table 6
Hospital Energy Budgets

Zone	Heating Degree Days	Cooling Degree Days	Btu/SF/Year	(kJ/mÀ2
National	--	-	110,000	(1 250
Zone 1	more than 7000	less than 2000	150,000	(1 700
Zone 2	5500-7000	less than 2000	150,000	(1 700
Zone 3	4000-5500	less than 2000	115,000	(1 300
Zone 4	2000-4000	less than 2000	110,000	(1 250
Zone 5	0 - 2000	less than 2000	110,000	(1 250
Zone 6	0 - 2000	more than 2000	115,000	(1 300
Zone 7	2000-4000	more than 2000	120,000	(1 360

Table 7
Energy Budget Conversion Factors

Source	Factor
Electricity	3,413 Btu (3 600 000 J) per kWh
Fuel Oil	138,700 Btu (1.46X10À8Ù J) per gallon
Natural Gas	1,030,000 Btu (1.09x10À9Ù J) per thousand cubic feet.
Liquified Petroleum Gas (including propane)	95,500 Btu (1.0 x 10À8Ù j) per gallon
Anthracite Coal	28,300,000 Btu (2.99 x 10À10Ù J) per short to
Bituminous Coal	24,580,000 Btu (2.59 x 10À10Ù J) per short to
Purchased Steam from Central Plant	1,000 Btu (1 055 000 J) per pound
High Temp/Medium	Use beat value based on the temperature of the water actually delivered at the building 5 ft (1500 mm) line

6.3 Energy Conservation.

6.3.1 Energy Recovery. Energy recovery devices, such as air-to-air rotary heat exchangers or coil runaround cycles, should be considered to recover energy from exhaust air from ducts exhausting 10,000 CFM or more. Filters shall be provided in intake air and exhaust air ducts before the ducts connect to heat recovery wheels.

6.3.2 Economizer Cycles. Economizer cycles shall be used when cost effective.

6.3.3 HVAC Shutdown. The facility shall be zoned for HVAC purposes to coordinate with the modular concept (functional and service) and departmental layouts to facilitate shutdown of portions of the building. The shutdown times will be based on the hours of operation of the occupied area. Within practical limits and life cycle cost considerations the hospital should be zoned for HVAC purposes into areas which operate 8, 16, or 24 hours.

6.3.4 Kitchen Hoods. Exhaust hoods in the kitchen production area shall be the type which use 80 percent raw, unconditioned air.

6.3.5 Fume Hoods. Fume hoods shall be designed with make-up air supplies to meet the air flow requirements of fume hoods. Controls shall be provided with the fume hood to prevent continuous operation of the fume hood. The HVAC system should be designed to operate independently of the exhaust capabilities of the fume hoods. General purpose laboratory fume hoods will be designed for a minimum face velocity of 100 feet per minute (0.5 m/s) to the full open face.

6.3.6 Steam Generators. Decentralized steam generators at the point of use shall be provided for processed steam requirements.

6.4 Maintenance.

6.4.1 Humidity/Condensation Management. Dead air spaces shall not be provided in accessible ceiling spaces, furred spaces, and electrical system spaces. Positive air movement and cross ventilation shall be provided to each such space to minimize or prevent the development of condensation and deterioration of inaccessible areas, materials, and components.

6.4.2 Clearances. Generally, a minimum of 4 feet (1200 mm) clearance shall be provided at all service points to mechanical and electrical equipment. Accessibility to electrical equipment shall conform to the National Electrical Code.

6.4.3 Fans. Fans shall not be located over functional programmed areas. All fans, air handling units, pumps, and compressors shall be accessibly mounted with adequate pads, hangers, vibration and noise eliminators.

6.4.4 Ductwork. All fresh air intake plenums shall be accessible for periodic cleaning of debris. Ductwork to exhaust hoods in prosthetic dental labs shall be fabricated of corrosion resistant material 10 feet (3000 mm) from the connection to exhaust hood. All exhaust hoods in prosthetic dental labs shall be fabricated of corrosion resistant material to resist the caustic fumes from "boil out" and casting activities in the laboratory.

6.4.5 Filters. Filter racks and filters shall be designed to be installed at intake side of all heat recovery coils or wheels to control lint and dust. Electrostatic or roll type filters shall not be used in hospitals. Terminal filters for operating rooms and critical clinical spaces shall be located so that filter maintenance shall not be required in the operating room or sterile area.

6.4.6 Prime Equipment. The design of all prime mechanical equipment including boilers, compressors, pumps, etc., shall split loads with multiple equipment with cross connections and controls. Multiple interlocked units with different capacities are preferable to single units to facilitate more equitable matching of capacities with variable loads. Duplex capability within total capacity design requirements will provide a level of continuity of service during "down time" periods of major service and/or repair and replacement. All domestic boiler feed water shall be treated for deionizing or "softening." Hot water generators shall be designed with heat exchange elements in lieu of direct immersion elements to increase longevity and facilitate multiple energizing sources.

6.5 Safety.

6.5.1 Emergency Operations. The complete ventilation and selected area for cooling shall operate as part of the emergency generation system.

6.5.2 Air Intakes/Exhaust Vents. Outdoor intakes shall be located as far as practical but not less than 25 feet (7600 mm) from exhaust outlets of ventilating systems, combustion equipment stacks, medical-surgical vacuum

systems, plumbing vent stacks, or from areas which may collect vehicular exhaust and other noxious fumes (plumbing and vacuum vents that terminate above the level of the top of the air intake may be located as close as 10 feet [3000 mm]). The bottom of outdoor air intakes serving central systems shall be located as high as practical but not less than 6 feet (1800 mm) above ground level, or if installed on the roof, 3 feet (900 mm) above the roof level.

6.5.3 Color Coding. Color coding and tagging for mechanical equipment shall be in accordance with OSHA.

6.5.4 Tripping Hazards. Tripping hazards such as condensate line in walk areas shall be avoided.

6.5.5 Catwalk and Fixed Ladders. Any work station or point of accessibility that is not accessible from a 6 foot (1800 mm) portable ladder shall be provided with a fixed ladder and/or catwalk system.

6.5.6 Noise and Vibration Sheilding. All prime equipment shall be mounted on curb or pad foundations isolated from the structure to prevent transmission of both vibration and resonant sound from the structure. Additionally all piping and ductwork connected to noise generating or prime mechanical equipment shall include noise and vibration elimination connections, isolating piping from equipment. DM-3.10, "Noise and Vibration Control for Mechanical Equipment," shall be consulted for additional requirements.

6.5.7 Seismic Boiler Fuel Reserve. In Seismic Zones 3 and 4 fuel oil and/or gas reserve systems shall be designed for 7 days' supply after an earthquake disturbance. Seismic fuel reserves shall be in addition to normal fuel requirements for heating. The 7 day reserve must be located on-site; however, it may be considered to be part of the 30 day National Emergency Reserve if the 30 day reserve is located on-site.

Section 7: PLUMBING AND PIPING SYSTEMS

7.1 Scope and Related Criteria.

7.1.1 Scope. The purpose of this section is to provide plumbing and piping systems criteria for the design of Navy Medical Facilities.

7.1.2 Related Criteria. The following is a list of mandatory design criteria on plumbing engineering which should be reviewed in conjunction with this section.

NAVFAC DM-3.01	Plumbing Systems
NAVFAC DM-3.05	Compressed Air and Vacuum Systems

7.2 Plumbing and Piping Engineering.

7.2.1 Oxygen.

7.2.1.1 Supply. Oxygen outlets shall be provided in accordance with Appendix A. Oxygen gas systems shall conform to NFPA 50, Bulk Oxygen Systems and NFPA 99, Health Care Facilities. In addition to the above, gas pressure shall be reduced to 55 psi (379 kPa) prior to being introduced into the distribution system. If approved, oxygen may be supplied from bulk containers in which the oxygen is stored as a liquid.

7.2.1.2 Capacity. Usage factors shall be in accordance with Table 8. A manifold system may be located within the building when the total capacity of connected cylinders (primary and secondary banks) does not exceed 5000 cubic feet (141 mÀ3Ù) of free oxygen. When total capacity exceeds 5000 cubic feet (141 mÀ3Ù) the manifold shall be located outside of the building. The most commonly used cylinder, 9 inches (225 mm) by 51 inches (1300 mm), when full, is at a pressure of 2200 psi (15 158 kPa) at 70deg.F (21deg.C) and will provide approximately 244 cubic feet(67 mÀ3Ù) of free oxygen.

7.2.1.3 Pipe Sizing. The maximum pressure drop from the source of supply to the farthest outlet shall be 5 psi (35 kPa) (initial pressure 55 psi (380 kPa); terminal pressure 50 psi (345 kPa). The minimum size of mains and risers should be 3/4 inch and the minimum size of branch lines should be 1/2 inch.

7.2.2 Nitrous Oxide.

7.2.2.1 Supply. Nitrous oxide outlets shall be provided in accordance with Appendix A. Nitrous oxide shall be supplied from a manifold system consisting of a primary and a secondary bank of cylinders. Manifold may be located within the building or outside; however, where outside temperatures approach 0deg.F outside installations shall be avoided.

7.2.2.2 Capacity. Usage factor shall be 100%. Provide a minimum of one-half cylinder on each bank per anesthetizing location; provide a minimum of two cylinders per bank. (The most commonly used cylinder, 9 inches (225 mm) by 51 inches (1290 mm), when full, contains 56 pounds (26 kg) of liquid nitrous oxide and will provide approximately 488 cubic feet (14 mÀ3Ù) of free gas.)

7.2.2.3 Pipe Sizing. Pipe sizes are based on the same criteria as listed in this section for oxygen piping except that flow rates shall be based on 12 liters per minute per outlet.

7.2.3 Nitrogen.

7.2.3.1 Supply. Nitrogen outlets shall be provided in accordance with Appendix A. Nitrogen shall be supplied from a manifold system consisting of a primary and a secondary bank of cylinders. Where outside temperatures approach 0deg.F (-18deg.C), outside installation of the manifold shall be avoided.

7.2.3.2 Manifold Capacity. The usage factors shall be in accordance with Table 9. In determining the number of cylinders to be connected to the manifold, provide a minimum of one-half cylinder per operating room.

7.2.3.3 Pipe Sizing. Pipe sizes are based on the same criteria as listed in this section for oxygen piping.

Table 8
Oxygen Usage Factors

Number of outlets	Usage Factor at 20 liters/minute/outlet
1-30	Central System not required
31 -60	70%
61 -70	65%
77 -90	60%
91-100	55%
101-125	50%
126-150	45%
151-175	40%
176-200	35%
201-225	30%
226 and up	25%

Table 9
Nitrogen Usage Factors

No. of Outlets	Usage factor at 20 liters/min/outlet
1-4	100%
5-8	90%
9-16	80%
17-40	70%
41-up	60%

7.2.4 Medical Air.

7.2.4.1 Supply. Medical air outlets shall be provided in accordance with Appendix A. Air compressors shall be oil-free reciprocating type with teflon rings or the rotary-liquid type. Units shall be provided in duplicate. Units shall operate alternately and shall run simultaneously when a single unit cannot satisfy the demand. After-coolers shall be water-cooled and shall be capable of lowering the inlet water temperature by 15deg.F (8deg.C). Air dryers shall be the refrigerated type. Units shall be capable of cooling the compressed air from 95deg.F (35deg.C) at saturation to 35deg.F (2deg.C). An air dryer shall be provided for use with rotary-liquid type air compressors. An after-cooler and an air dryer shall be provided for use with reciprocating type air compressors. The compressor intake shall be from outside of the building. The intake pipe shall be equipped with an air filter and shall be so protected as to eliminate the possibility of drawing rain and snow into the compressor. The location of the intake shall be removed from any exhausts or plumbing vents. A minimum pressure of 55 psi (380 kPa) shall be maintained at the source of supply (usually at an air receiver) and 50 psi (345 kPa) residual pressure at station outlets. The piping system shall be maintained at a constant inlet pressure of 55 psi (380 kPa). To maintain a constant line pressure a pressure regulating valve shall be installed in the main supply line (at receiver outlet).

7.2.4.2 Capacity. Usage factors shall be in accordance with Table 10.

7.2.4.3 Pipe Sizing. Sizing of the distribution piping system shall be based on the calculated flow rate and a maximum line-loss of 5 psi (34 kPa).

Table 10
Compressed Air Usage Factors

Area	cfm (L/m)[1] per outlet (free air @ 50 psi/ 340 kPa)	Usage factor[2]
Nursery	0.5 (14)	100%
Autopsy room	1.0 (28)	100%
Operating room	0.5 (14)	100%
Delivery room	0.5 (14)	100%
Emergency room	0.5 (14)	100%
Intensive care	0.5 (14)	100%
Recovery room	0.5 (14)	100%
Patient rooms, laboratories, and all other outlets	0.25 (7)	10%

[1] Liter per minute.
[2] Factor is to be applied to multiple outlets; however, the minimum flow rate shall not be less than the cfm (L/m) indicated for a single outlet.

7.2.5 Medical Laboratory Air. Medical laboratory air shall not be provided unless specifically justified. When provided the pressure shall be no greater than the highest required use and not greater than 125 psi (860 kPa). The normal laboratory air pressure required is 80 psi (550 kPa).

7.2.6 Dental Air.

7.2.6.1 Supply. Dental air shall be provided to all dental operating unit utility boxes in accordance with Appendix A. Air compressors shall be oil-free reciprocating type with teflon rings or the rotary liquid type. Units shall be provided in duplicate. Units shall operate alternately and shall run simultaneously when a single unit cannot satisfy the demand. After-coolers shall be water-cooled and shall be capable of cooling the compressed air to within 15 degrees of the inlet water temperature. Air dryers shall be the refrigerated type. Units shall be capable of cooling the compressed air from 95deg.F (35deg.C) at saturation to 35deg.F (2deg.C). An air dryer shall be provided for use with rotary-liquid type air compressors. An after-cooler and an air dryer shall be provided for use with reciprocating type air compressors. The compressor intake shall be from outside of the building. The intake pipe shall be equipped with an air filter and shall be so protected as to eliminate the possibility of drawing rain and snow into the compressor. Intakes shall be located as far as practical but not less than 25 feet (7500 mm) from any exhausts or plumbing vents. Pressure in the receiver shall be maintained at a minimum of 85 psi (586 kPa) and the residual pressure at dental units shall be 80 psi (551 kPa). The piping system shall be maintained at a constant inlet pressure of 85 psi (586 kPa). To maintain a constant linepressure, a pressure regulating valve shall be installed in the main supply line (at receiver outlet).

7.2.6.2 Capacity. Dental air for dental units shall be provided at 80 psi (550 kPa) and 3 cfm (0.14 L/sec) per outlet using the usage factors on Table 11. Dental air outlets in dental laboratories shall be provided at 30 psi (210 kPa) and 0.25 cfm (1.8 L/sec) per outlet using the usage factors on Table 12.

7.2.6.3 Pipe sizing. Sizing of the distribution system shall be based on the calculated flow rates and a maximum line loss of 5 psi (35 kPa).

Table 11
Compressed Air for Dental Units (Chairs) Usage Factors

No. of units (chairs)	Usage factor
1-4	60%
5-12	50%
13-25	40%
26 or more	30%

Table 12
Compressed Air for Dental Laboratories Usage Factors

No. of outlets	Usage factor[1]
1-4	100%
5-10	50%
11-40	20%
over 40	10%

If laboratory equipment includes a shell blaster, 8 cfm (225 L/m) at 80 psi (550 kPa) shall be provided to operate the unit. Oil-free air for this unit is not mandatory but desirable.

7.2.7 Medical Vacuum.

7.2.7.1 Supply. Medical vacuum outlets shall be provided in accordance with Appendix A. A minimum vacuum of 15 inches(375 mm) Hg shall be maintained at station outlets; a minimum vacuum of 19 inches (475 mm) Hg shall be maintained in receiver (vacuum tank). Vacuum pumps shall be sized on their ability to evacuate the required cubic feet per minute (liters per minute) of free air from a vacuum of 19 inches (480 mm) Hg. Pumps shall be provided in duplicate; each shall be capable of satisfying the demands of the system. Units shall operate alternately.

7.2.7.2 Capacity. The capacity of the piping system and equipment shall be determined by the calculated flow rates in cubic feet per minute free air (liters per minute) and usage factors in accordance with Table 13.

7.2.7.3 Pipe sizing. Pipe sizing shall be based on the calculated flow rate and a maximum total line loss of 4 inches (100 mm) Hg. Minimum pipe sizes shall be 1 inch (25 mm) for mains, 3/4 inch (20 mm) for laterals and risers, and 1/2 inch (13 mm) for branches to single outlets.

Table 13
Vacuum Usage Factors

Location of Outlet	cfm (L/m) (Free Air) per Outlet	Usage factor
Operating Rooms	1.0 (28)	100%
Delivery Rooms	1.0 (28)	100%
Emergency Room	1.0 (28)	100%
Recovery Room	1.0 (28)	100%
Intensive Care	1.0 (28)	100%
Nurseries	1.0 (28)	20%
Patient Rooms	1.0 (28)	20%
Autopsy Room	1.0 (57)	20%
Inhalation Therapy	1.0 (28)	10%
Treatment Rooms	0.5 (14)	10%

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7.2.8 Oral Evacuation.

7.2.8.1 Low vacuum/high volume system. Total capacity of the system shall be based on the number of DTRs and the usage factors on Table 14. The low vacuum/high volume oral evacuation system is a system in which the liquids and solids are prevented from reaching the vacuum pumps. The system is for the General Dental Treatment Room (DTR), the Oral Hygiene Room (OHT), and the Prosthetic DTR. The pumps are turbine type. The system shall provide a vacuum of 5 to 7 inches of mercury (17 kPa to 24 kPa) with an air flow of 10 to 12 cubic feet per minute (5-5.6 L/sec) at the nozzle (free air) for each DTR. A solids collector shall be provided in each DTR. Two or more collector tanks shall be provided to prevent solids and liquids from entering the pumps. The tanks shall be sized so that, with one tank out-of-service, the capacity of the remaining tank(s) shall be capable of supporting an 8-hour clinic work-load. The piping to and from each tank shall be valved so that the tank can be isolated from the system without interrupting the service. The tanks shall empty automatically when the system is shut down or should the tanks become overfilled. Pumps shall be the multi-stage turbine type. Two or more pumps shall be provided. The air from the pumps shall be exhausted to the outside or through a decontaminating baffle filter.

Table 14
Oral Evacuation Usage Factors

No. of units (chairs)	Usage factor
1-4	60%
5-12	50%
13-25	40%
26 or more	30%

7.2.8.2 High vacuum/low volume system. The total capacity of the system shall be based on the number of DTRs and the usage factors in Table 14. The high vacuum/low volume oral evacuation system is a system in which the liquids enter the vacuum pumps and are discharged into the sanitary drainage system. The system is provided for the Periodontic DTR, the Endodontic DTR, and the Surgical DTR. The solids are intercepted and are prevented from reaching the pumps. The pumps shall be the wet rotary type. The system shall provide for an adjustable vacuum of up to 18 inches (60 kPa) of mercury with an air flow of 10-15 cubic feet per minute (5-7 L/sec) for each dental operating room (DOR). An in-line filter shall be provided in each DOR. Pumps shall be suitable for a wet system.

7.2.8.3 Piping. Piping shall be designed with long-turn fittings,

7.2.9 Distilled Water. Purified water systems shall be provided at the point of use.

7.2.9.1 Laboratory Water Quality Requirements. Pure water for laboratory use will require Type II water. In some cases Type I water may be required. Water types are based on the College of American Pathologists specifications as shown on Table 15.

7.2.9.1.1 Type I Water. Type I water is used for tissue and cell culture methods, ultra-microchemical analyses, special and critical analytical chemical analysis where accuracy at mammograms and submammograms levels is necessary; and preparation of standard solutions.

7.2.9.1.2 Type II Water. Type II water is used for most routine clinical lab methods in chemistry, immunology, hematology, and other areas.

7.2.9.1.3 Type III Water. Type III water is used for most qualitative procedures; most procedures in urinalysis, parasitology and histology; glassware washing, general lab tests not requiring Type II water.

Table 15
Laboratory Water Purity Requirements

	Type I	Type II	Type III
Resistivity (Megaohms @ 25deg.C)	10	2.0	0.1
Silicate (mg/liter SiO_2)	0.05	0.10	1.0
pH	N. A.	N. A.	5.0-8.0
Microbiological Content (count per milliliter)	10	10,000	N.A.

7.2.9.2 Washer Sterilizers, Glassware, and Sonic Cleaners. Water for use in glassware washers, sonic cleaners, and washer sterilizers shall be not more than 4 grains of hardness per gallon (70 ppm).

7.2.10 Plumbing Fixtures. Plumbing fixtures shall be in accordance with Federal Specification WW-P-541. Lavatories and sinks required in patient care areas shall have the water supply spout mounted so that its discharge point is a minimum distance of 5 inches (125 mm) above the rim of the fixture. All fixtures used by medical and nursing staff, and all lavatories used by patients and food handlers shall be fitted with valves operated without the use of hands. Where blade handles are used for this purpose, they shall not exceed 4-1/2 inches (113 mm) in length, except that handles on scrub sinks and clinical sinks shall not be less than 6 inches (150 mm) long. Clinical sinks shall have an integral trap in which the upper portion of a visible trap seal provides a water surface.

7.2.11 Natural Gas. Natural gas outlets shall be provided in accordance with Appendix A. Design of natural gas, manufactured gas and liquified gas systems shall be in accordance with NFPA 54, NFPA 58, and DM-3.01. Only low pressure gas (approximately 5 inches water column) shall be distributed within the building.

7.2.12 Wet Vacuum Cleaning. A wet central vacuum cleaning system shall be provided in surgery and delivery departments. Outlets shall be located in corridors accessible to each operating room and delivery.

7.2.13 Waste.

7.2.13.1 Acid Waste. Acid waste systems shall be provided for all laboratories and x-ray film processor rooms. All acid waste piping shall be corrosion resistant. Acid waste systems shall be provided with a dilution system including holding tank and sampling basin. Tank shall be fabricated of polypropolyene downstream of the last fixture as the capacity of the tank shall be based on the flow of 100 percent of the fixtures in the system with applicable diversity factor with a holding period of 30 minutes. Tanks shall be provided with an immersible slow speed agitator and a 2 foot (600 mm) diameter access manhole to facilitate inspection, dipsticking, draining and cleaning.

7.2.13.2 Grease Interceptors. The kitchen drainage system shall be designed to be an air independent system discharging through a grease trap, located outside of the building, prior to connection to the main sanitary system. Water closets and urinals sanitary systems shall not be connected to the kitchen sanitary system.

7.2.13.3 Nuclear Decontamination Unit. Waste from Nuclear Decontamination Units shall flow by an accessible independent piping system to a double-wall holding tank with a minimum 1000 gallon (4000 L) capacity. The tank shall be located away from general facility access areas to allow removal of the tank. The tank shall be designed to permit radiation monitoring and emptying.

7.2.13.4 Nuclear Waste. Nuclear waste systems shall be in compliance with the design standards established by the Nuclear Regulatory Commission (NRC), Code of Federal Regulations (CFR), 10 CFR Part 20, Standards for Protection Against Radiation. The waste should be collected by a designated hot sink. Piping shall be glass, lead, or PVC depending on host material used for radiation.

7.3 Flexibility.

7.3.1 Overhead Piping. All pressurized plumbing systems shall be designed for installation in ceiling plenums for servicing equipment, etc., on floor below. Service to equipment, etc., on floor above ceiling plenums is not acceptable.

7.3.2 Laboratory Piping. A 6 feet (1800 mm) by 6 feet (1800 mm) water supply grid shall be provided in the ceiling above the laboratory. Plugged taps shall be provided every 6 feet. Floor sinks shall be provided in a 12 feet by 12 feet grid.

7.4 Energy Conservation.

7.4.1 Solar Hot Water Systems. Solar hot water systems may be used when justified economically.

7.4.2 Hot Water Design Temperatures. In the dietary department, 140deg.F (60deg.C) water will be provided for all uses except dishwashing. Dishwashing shall be provided 180deg. (82deg.C) water. Booster heaters may be used to obtain 180deg.F (82deg.C) water. In all other areas of the facility, hot water shall be provided at 105deg.F (40deg.C).

7.4.3 Fixtures. Fixtures and control valves shall be selected which reduce the consumption of water in accordance with Table 16. Where standard fixtures and control valves are not available in water-conserving devices, flow control devices which limit the flow to 2.5 GPM (0.016 L/sec) shall be installed to limit the flow of water.

Table 16
Fixture Water Flow Rates

Fixture	Use	Flow Rate
Lavatories:	Clinical	0.05 gpm (0.03 L/sec)
Lavatories:	Public (self-closing)	0.25 gpm (0.016 L/sec)
Showers:	All except deluge	3.0 gpm (0.10 L/sec)
Water Closets:	Flush valve	3.0 gpm (0.19 L/sec)
Urinals:	All	2.0 gpm (0.13 L/sec)
Other	All	2.5 gpm (0.16 L/sec)

7.4.4 Water Pressure. Pressure reducing valves shall be provided as necessary to provide 25 psi (172 kPa) at the most remote flush valve and 8 psi (55 kPa) at any other outlet. Where water pressure is not sufficient, water pressure shall be increased by using a hydro-pneumatic system consisting of tank, compressed air system, and associated controls.

7.5 Safety.

7.5.1 Labeling. Contents of all piping systems shall be readily identified by appropriate labeling with the name of substance contained within the piping system. Such labeling shall be by means of metal tags secured to valves and with piping and equipment clearly stenciled. Labeling shall appear on piping in at least one place in each room and floor traversed by pipeline. Each item of equipment shall be clearly identified as to its nature (pump, etc.) and system usage in accordance with MIL-STD-101.

7.5.2 Catwalks and Guard Rails. Catwalks and guard rails shall be provided for safety of all personnel when equipment is located in pits and/or elevated above floor level. Railing shall be demountable type to allow for removal of equipment if necessary for replacement or servicing.

7.6 Sound and Vibration Shielding. Plumbing and piping shall be isolated from pumps and other prime equipment by flexible connections to prevent transmission of sound and vibration. All water piping shall be designed for less than 7 feet (2100 mm) per second velocity. All quick closing valves shall be provided with shock absorbers located on the upstream side of the valve. All pumps 1 horsepower and over, compressors, vacuum pumps, and other prime plumbing equipment shall be mounted on pads with vibration isolators. Sound and vibration shielding shall be in accordance with DM-3.10, "Noise and Vibration Control for Mechanical Equipment."

7.7 Maintenance.

7.7.1 Piping. No pressure piping except automatic sprinkler protection piping shall be provided in the overhead above computer rooms, electrical equipment rooms, and telephone equipment rooms.

7.7.2 Re-circulating Hot Water. A re-circulating hot water system shall be provided. Branch (non-recirculating) hot water lines shall not exceed 25 feet (75 000 mm) in length.

7.7.3 Floor Drains. Floor drains shall be provided for the following areas only: hydrotherpy, cast room, and urology/cystoscopy room. A raised curb and floor drain shall be provided for the replenishment tanks in the x-ray film processing area.

7.7.4 Deluge Shower and Eye Wash. Eye-wash shall be connected directly to the sanitary drain. A floor drain shall be provided directly under the deluge shower.

7.8 Seismic.

7.8.1 Water Supply. The design shall assure continued supply of water, air, gas, and oxygen after an earthquake to maintain essential services. Water supply shall be for 7 days of domestic water (limited use) and 2 hours of fire protection water.

7.8.2. On-Site Water Storage. Normal water service will be provided with two independent connections to the water system. In addition, a water storage facility will be provided as an emergency source of water. The water storage facility will be sized to adequately meet fire and water demands during the post-earthquake emergency period. On-site water lines will be designed to minimize disruption from earthquakes and to facilitate post-quake repair. The water distribution system will be designed to conserve the water supply and allow control of its use.

7.8.3 Sanitary Sewerage Holding. An emergency sanitary sewage holding facility with a one day capacity shall be provided for temporary retention of all sanitary sewage discharged from the hospital during the post-earthquake emergency period.

Section 8: ELECTRICAL ENGINEERING

8.1 Scope and Related Criteria.

8.1.1 Scope. The objectives of this section is to provide electrical design criteria to insure a safe, reliable, and economical electrical system for Navy Hospitals. The basic electrical design criteria is covered in the "Related Criteria" listed below and especially in the NAVFAC DM-4 series of manuals, and NFPA, 70, 99 and 101.

8.1.2 Related Criteria. The following is a list of mandatory design criteria on electrical engineering and should be reviewed in conjunction with this section.

NAVFAC DM-4.01	Electrical Engineering, Preliminary Design Considerations
NAVFAC DM-4.02	Electrical Engineering, Power Distribution Systems
NAVFAC DM-4.03	Electrical Engineering, Switchgear and Relaying
NAVFAC DM-4.04	Electrical Engineering, Electrical Utilization Systems
NAVFAC DM-4.06	Electrical Engineering, Lightning
NAVFAC DM-4.07	Electrical Engineering, Wire Communication and Signal Systems
NAVFAC DM-4.09	Energy Monitoring and Control Systems
NAVFAC DM-4.10	Electrical Engineering, Cathodic Protection

8.2 Electrical Engineering.

8.2.1 Lighting. Light sources for exterior lighting shall be limited to high pressure sodium, metal halide, or fluorescent. Light sources for interior applications shall be limited to fluorescent lighting, except where metal halide or high pressure sodium may be used effectively. Incandescent lighting is not permitted for either interior or exterior application except for electroencephalography (EEG) rooms or other rooms where fluorescent lights interfere with the medical equipment. Energy conserving flourescent lamps and ballasts should be used to reduce energy consumption.

8.2.1.1 Lighting Level Ranges. Lighting levels for each programmed space shall be in accordance with Appendix A. The level indicated is the maximum design level for the average maintained general illumination. The level shall not be less than 10 percent below the level indicated. Task illumination will be required in some cases to supplement general lighting.

8.2.1.2 Lighting Controls. Energy conserving controls include two-level switching, timers, photoelectric calls, door switches, dimmers, and motion detectors.

8.2.1.2.1 Two-level Switching. Two-level switching shall be provided for all areas with design lighting levels greater than 50 footcandles (540 lux).

8.2.1.2.2 Timers. Timers shall be used in interior rooms occupied for a short duration, such as cleaning, soiled utility rooms, equipment and storage rooms, and single occupant toilet rooms.

8.2.1.2.3 Photocells. Exterior lighting in areas with limited nighttime usage such as outpatient parking and visitor parking shall be controlled with a combination of photoelectric cells and timers. The photoelectric cell will be used to turn on the lighting systems at dusk and the timer would turn the lighting off at a preset time. All other exterior lighting such as staff parking areas, exterior signage, and security lighting should be controlled by photoelectric cells. These lighting systems would be turned on at dusk, remain on during the night, and be turned off at dawn. Interior lighting should be controlled by photocells in areas such as perimeter offices, perimeter corridors, waiting rooms and lobbies.

8.2.1.2.4 Door Switches. Door switches should be used for rooms which are infrequently occupied and the use of the room is only at times when the door is open. Examples of such rooms are: janitor's closets, communications closets, and electrical closets.

8.2.1.2.5 Occupancy Detectors. Motion and infrared detectors should be considered in lighting control when economically justified.

8.2.1.3 Exterior Surveillance and Monitoring. Lighting for the security of personnel and property shall be designed so that all areas in the immediate vicinity of the facility and the parking lots are evenly illuminated with a minimum of shadowed areas. Illumination of parking areas shall be 1/2 footcandle (0.5 lux). Luminaires shall be selected to avoid excessive side and up light spill which affects the ability for visual surveillance.

8.2.2 Power. The facility electrical supply shall consist of a normal source and an alternate source. The normal source shall be from the local utility and shall consist of a preferred and an alternate service. The alternate source shall be from on-site generators.

8.2.2.1 Normal Source. The minimum capacity of the preferred service shall be sufficient to supply the maximum electric demand for normal facility operation. The alternate service will normally have the same capacity as the preferred service; but, if the alternate service capacity is limited, then a load shedding scheme shall be provided to reduce the load prior to transfer to the alternate services. The preferred and alternate services shall be electrically and physically separated to the greatest extent possible. The two services shall be derived from different utility sources when feasible. The two services shall be routed to the hospital over widely separated paths to provide added protection against interruption of both services by a single local incident. Automatic service transfer equipment should only be provided when the services are served by different utility sources and are essentially independent services. The electrical services shall be routed below grade within the hospital site.

8.2.2.2 Alternate Source. The alternate source shall consist of two or more generator sets located on-site to supply the essential electrical system. The generator sets should be of equal capacity and shall be sized to supply the peak demand load of the essential electrical system. The generator sets should be arranged for parallel operation.

8.2.3 Essential Electrical System. The essential electrical system shall be comprised of two separate systems, the equipment system and the emergency system, capable of supplying a limited amount of power during a normal power outage. The essential electrical system shall comply with NFPA 70 and NFPA 99A.

8.2.3.1 Emergency System-Life Safety Branch. The Life Safety Branch: Only the following loads shall be connected to this branch:

- Loads required by NFPA-99.
- Illumination of means of egress - All exit signs, 25 percent of lighting in corridors, passageways, stairways and landings at exit doors, and all approaches to exits.
- Communication systems - Nurse call, Telephone, paging, radio, and intercom systems.
- Equipment Rooms - 25 percent of lighting and selected receptacles in generator room, transformer vaults, switchboard, and equipment rooms.

8.2.3.2 Emergency System-Critical Branch. The following loads shall be connected to this branch:

- Loads required by NFPA-99.
- 100 percent power and lighting for the following: Cardiac catheterization unit, Cardiac care units, Cystoscopic rooms, Labor/Delivery rooms, Emergency department, Hemodialysis units, Intensive care units, Nurseries Radiographic Special Procedures rooms, Recovery rooms, Surgical Suite.
- 25 percent lighting and selected power for the following: Administrative Areas, Admitting and Disposition, Laboratories, Medication preparation areas, Nurses stations, Pharmacy, Radiology.
- Patient bedrooms: One receptacle per bed.

8.2.3.3 Equipment System. The following loads shall be connected to this branch:

- Loads required by NFPA-99.
- Elevators: Power and necessary controls to allow operation of only one passenger and one service elevator simultaneously.
- Radiology: Two X-ray rooms, including one flouroscopic room, selected any one at a time, and two automatic film processors.
- Special Exhaust Systems: Fumehoods in clinical laboratory room and radioisotopic hoods.
- TRIMIS Systems and Equipment.
- Refrigeration Systems: Morgue refrigeration and all equipment for storage of blood, biologicals, pathological specimens, medicines, and selected food refrigeration equipment.
- Pumps: Fuel, Sump, fire, water, and sewage pumps.
- Heating and Air Conditioning Systems: For surgical, Labor/delivery, ICU, and CCU, nursery including nursery work rooms, cystoscopic and special procedure rooms, computer operations for area considered critical, i.e. CAT and Nuclear Medicine, controls and auxiliaries for central heating and cooling.

- o Central Material Supply 50 percent of lighting and selected power for limited operation of sterilizers, washers, cleaners, and dryers.
- o Food Service 50 percent of lighting and selected power in kitchen, and 25 percent of lighting in dining room.
- o Central suction and compressed air systems serving medical and surgical functions, including controls.
- o Helipads: 100 percent lighting and power.

8.2.4 Isolated Power Systems. Isolated power systems shall not be routinely provided in non-flammable inhalation anesthetizing locations or wet patient care areas. When provided these systems shall comply with NFPA 99.

8.2.5 Ground Fault Protection. Local ground fault circuit interrupter (GFCI) shall be provided in accordance with NFPA 70. GFCIs shall only be provided in wet patient care areas. GFCIs shall not be provided in public toilets, locker rooms and similar areas.

8.2.6 Hospital Grade Receptacles. Hospital grade receptacles shall only be provided where required by NFPA 70 and NFPA 99.

8.3 Flexibility and Expandibility.

8.3.1 Power Distribution and Circuitry. Power distribution and circuitry shall be designed so that additional loads may safely be added to existing panels without danger of overload or requiring shutdown of the service. Branch circuit panelboards shall be designed with a minimum of 20 percent spare load capacity and 25 percent unused pole spaces for additional protective devices.

8.3.2 Laboratory Planning. Due to frequent changes in laboratory service, branch circuit panelboards should be provided for each laboratory to permit changes without disrupting the operations in adjacent areas. Fifty percent spare circuits shall be provided for equipment changes which require dedicated circuits.

8.4 Maintenance.

8.4.1 Space. Clearances around electrical equipment shall comply with NFPA 70. Electrical motors, switchgear, panel boxes, generators, etc. shall be located with a minimum of 3 feet (900 mm) clearance for servicing equipment. Sufficient clearance shall be provided to allow removal of each item of equipment without removing or disassembling other equipment.

8.5 Electromagnetic Interference (EMI) Shielding. Special electromagnetic shielding enclosures shall no be provided unless a known interference source is suspected because of a specific geographic or site situation. Where a known or suspected interference condition exists special EMI shielding enclosures shall only be provided after and in accordance with the conclusions of a special EMI survey of the site. Where and when EMI shielding is deemed necessary, attenuation criteria and measurements for shielded enclosures shall conform to MIL-STD-285, "Attenuation Measurements for Enclosures, Electromagnetic Shielding for Electronic Test Purposes, Method of."

8.6 Seismic.

8.6.1 Electrical Equipment and Installation. Electrical equipment and installation shall comply with NAVFAC P-355, Seismic Design Guidelines for Essential Buildings.

8.6.2 Electrical Generation Fuel Supplies. Fuel storage for the generators shall be designed for 7 days' supply of oil after an earthquake disruption of service.

Section 9: COMMUNICATIONS ENGINEERING

9.1 Scope and Related Criteria.

9.1.1 Scope. The objective of this section is to provide communication engineering criteria for the design of Navy Hospitals.

9.1.2 Related Criteria. The following is a list of mandatory design criteria on communications engineering which should be reviewed in conjunction with this section.

NAVFAC DM-4.07	Electrical Engineering, Wire Communication and Signal Systems

9.2 Communications Engineering.

9.2.1 Communication Functions. Communication functions for each programmed space shall be in accordance with Appendix A.

9.2.2 Equipment Room. An equipment room will be provided for telephone switching and associated equipment. The room must be provided with air conditioning, heating, humidity and dust control to meet equipment requirements. Piping, ductwork, or the systems which are not required in the telephone equipment room shall not pass through or be located in the room.

9.2.3 Communication Closets. Communications/telephone closets will be provided throughout the facility. In multi-level structures, closets will be aligned vertically.

9.2.4 Ground System. The building ground system will be extended to the communication equipment rooms and closets and to the TRIMIS computer room.

9.2.5 Cable Trays. A common cable tray system should be provided in the corridor plenum space for all communication cables.

9.2.6 Pay Telephones. Pay stations will normally be required in the emergency area, the main entrance lobby, the expectant fathers' waiting room in the delivery suite and the family waiting room of the ICU/CCU.

9.2.7 Central Annunicator Panels. Central control and annunicator panels for all communication systems shall be located in the Communication Control Center.

9.3 Integrated Telephone/Intercom System. Integrated telephone/intercom system outlets shall be provided in accordance with Appendix A. The telephone, intercom, paging, radio paging, area paging, and dictation access shall be integrated into a single system. The system will consist of an internal private automatic branch exchange having minimum capabilities as follows:

9.3.1 Inward/Outward Dialing. Both direct inward (DID) and direct outward dialing (DOD) of calls. Both DID and DOD dialing will be subject to restrictions which can be selectively applied to each station line.

9.3.2 Pocket Pager Access. Direct access from all stations to the low frequency pocket paging system.

9.3.3 Loudspeaker and Dictation Access. Direct access from selected stations to the loudspeaker paging system and the central dictation system.

9.3.4 Call Transfer. Call transfer/hold/three party conference feature whereby any station can transfer an incoming call to another station without operator assistance, place incoming calls on hold, and add a third party to the conversation.

9.3.5 Camp On Feature. Camp-on feature which provides automatic call back when number called is busy. When the busy station becomes idle, the circuit will be automatically completed and both phones will ring.

9.3.6 Abbreviated Dialing. Abbreviated dialing of frequently called numbers, achieved by dialing a three-digit code. Departments and other organizational elements will be provided with a one or two-digit intercom network which interconnects branches, sections, and work areas as required. A special two or three digit code will be assigned for the code blue team. Dialing the special code will access both the radio and public address paging system. The radio paging system will automatically be keyed for the group alert.

9.3.7 Emergency Override. Emergency override that provides the calling party the capability of entering the conversation on a busy line. A warning tone should be given to the talking parties to indicate that their connection is being entered. This feature will normally be restricted to control stations in the surgical suite, delivery suite, emergency room, and ICU/CCU wards.

9.3.8 Do Not Disturb. Do-not-disturb feature which provides that no incoming calls can be completed when a phone is placed in this mode, but that outgoing calls may still be originated. This feature should be available at all phones in patient rooms to prevent disturbing patients during rest periods and in doctors' offices, consultation rooms and conference rooms.

9.3.9 Call Forwarding. Call-forwarding feature which will permit a phone user to forward all calls normally received by his/her phone to another phone.

9.3.10 Operator Intercept. Operator intercept for unassigned, discontinued or changed numbers and attempted violations of class of service restrictions.

9.3.11 Hands Free. Hands-free intercom communication will be provided by the telephone system.

9.3.12 Automatic Call Distribution. Automatic call distribution may be provided in the Central Appointments Office when justified.

9.3.13 Station Hunting. Incoming calls are routed to an idle line in a group when the line called is busy.

9.4. Dedicated Intercom Systems. A dedicated independent hands-free intercom system shall be provided between each Operating Room and the Laboratory.

9.5 Nurse Call System. An audio-visual nurse call system shall be provided for all inpatient care units, surgical suite, nursery, delivery suite, and emergency clinic. A tone/visual nurse call system shall be provided in selected outpatient areas.

9.5.1 Audio-Visual System. The nurse call system on inpatient nursing care units shall consist of a control station located at the nurses' station, staff stations, duty stations, patient bedside stations and emergency call stations.

9.5.1.1 Control stations. The control station located at the nursing unit shall register by an annunciator, electronic chime and digital display, indicating which station is calling and the order in which calls were placed. Incoming calls shall be registered as normal calls or special care calls as classified by coding at the bedside. Routine normal care calls will be able to be cancelled either at the control station or at the point of origin. Special care calls must be cancelled at the point of origin. Calls may be selectively placed to any bedside station, staff station, or duty station. Group paging will be possible to all or any combination of bedside stations, staff stations, and duty stations.

9.5.1.2 Staff stations. Staff stations will provide two-way hands-free communication to the control station.

9.5.1.3 Duty stations. Duty stations will alert the staff of a patient call, indicate call priority, and allow two way communication between duty station and patient.

9.5.1.4 Patient bedside stations. Each patient will be provided with a patient bedside station to allow individual patient call registration at the control station. These stations will contain the following features: cord disconnection, push-button call, two-way, hands-free communication, reset switch, normal care/special care switch, entertainment pillow speaker, and privacy switch.

9.5.1.4.1 Cord disconnection. When a call cord is pulled out of the socket a call will automatically register on the control station indicating the disconnected cord.

9.5.1.4.2 Push-button call. A push-button switch shall be used to notify the control station of a patient request. A visual indication will be given that the call has been registered. Activation of the call button will also illuminate appropriate corridor/zone dome lights.

9.5.1.4.3 Two-way, hands-free communication. Two-way, hands-free communication to the control station shall be permitted without moving in bed, without directing voice towards the microphone, and while speaking at normal level.

9.5.1.4.4 Normal care/special care reset. A reset button which cancels calls shall be placed at the bedside station. A routine/special care call switch shall indicate the status of the patient. For calls originated at beds coded special care, the call may be cancelled only at the bedside station.

9.5.1.4.5 Entertainment pillow speaker. An entertainment pillow speaker with radio/TV channel selection and volume controls shall be provided. When the nurse call system is utilized, the radio/TV audio will be muted.

9.5.1.4.6 Privacy switch. A means shall be provided to allow the patient privacy from monitoring at the control station.

9.5.1.5 Emergency call stations. These stations will consist of a pull chain switch easily accessible for patients, whether standing, sitting, or in the prone position. Pulling the cord will result in a priority call being relayed to the control station. The patient will receive a visual signal that the call has been registered. Calls from these stations can be cancelled only from the origin by depressing a reset switch.

9.5.1.6 Staff emergency call stations. Red pushbutton stations shall be provided to initiate a staff emergency call to the control console.

9.5.1.7 Hall lanterns. Hall lanterns shall be provided as part of the nurse call system above the doors of rooms with patient bedside stations, staff emergency stations, or emergency call stations. When calls originating from patient bedside stations or emergency call stations are registered, appropriate zone and room hall lanterns shall be illuminated indicating where the call originated.

9.5.2 Tone-visual Systems. These systems are similar to audio-visual systems but do not provide voice communication. The system consists of emergency pull cord stations, staff emergency stations, corridor dome lights, and annunicator panels.

9.5.3 Surgical Suite. A nurse call system shall be provided in each operating room, lounge, and recovery room. Hall lanterns shall be provided to indicate when emergency help is needed in operating rooms.

9.5.4 Delivery Suite. A nurse call system shall be provided with normal bedside stations in each labor room and staff stations in each delivery room, recovery room, lounge, and sleeping room. This system shall provide a pleasant sounding chime audible throughout the delivery suite area.

9.5.5 Emergency Clinic. A nurse call system shall be provided with staff stations in each patient care room, treatment cubicle, emergency room, and cardiac room.

9.6 Public Address/Program Distribution System. Speakers shall be provided in accordance with Appendix A and Table 17. The public address/program distribution system provides two functions: paging and background/program distribution. A large number of low power speakers will be used to keep the sound well distributed, but at a low volume. Speakers in each area will be provided with on/off switches and volume controls. Controls for corridor speakers shall be located at nurses stations or control desks.

9.6.1 Paging. Paging shall be provided on all corridor speakers and other areas identified in Appendix A. Note that some areas receive music only. Both limited and general paging features will be provided. During paging, the central system will be muted on all channels at the speakers. The operator/receptionist and other designated telephones will have access to both wide and limited area features. Nurses' stations, pharmacy, and other selected stations will have dial access to specified limited area paging through the telephone system.

9.6.2 Background Music/Program Distribution. One channel of music shall be provided to all speakers identified in Appendix A.

9.7 VHF/UHF Radio Paring. A radio paging system shall be provided and interconnected with the telephone system. A conduit, roof penetration, and roof top antenna mounting bracket shall be provided for the paging system.

9.8 Emergency Radio and Telemetry. An emergency radio and telemetry station shall be provided in the Emergency Department. An empty conduit for the antenna shall be provided from the work stations to the roof.

9.9 Tri-Service Medical Information Systems (TRIMIS). Data communication outlets shall be provided as indicated in Appendix A and shall consist of a two-gang with a metallic separator. Conduits shall be provided for the TRIMIS system. Conduit and cable trays shall be provided to accommodate coaxial cable or a twisted pair wire from terminal locations throughout the facility to the TRIMIS computer room. One side of the box will contain a duplex receptacle.

Table 17
Background Music/Paging Requirements

Area	Background Paging	Background Music
All Public Corridors	X	X
Nursing Units		
Visitor/Day Room	X	X
Corridors	X	X
Dining Rooms	X	X
Outpatient Clinic		
Waiting Areas	X	X
Corridors	X	X
Staff Lounges	X	X
Conference Rooms	X	X

9.10 TV Systems. Television outlets shall be provided in accordance with Appendix A. The television system consisting of antennas, distribution facilities, and antenna outlets will be provided for entertainment television, educational television, security monitoring, and clinical monitoring.

9.10.1 Entertainment and Educational Television. Entertainment and educational television antenna outlets shall be provided for each patient room, day room, clinic waiting room, classroom, conference room, auditorium, staff lounge, and duty room. Four channels of music will be distributed to patient bedrooms and will appear on unused TV channels.

9.10.2 Closed Circuit Security Monitoring. Conduit and mounting brackets for closed circuit television shall be provided when approved.

9.10.3 Closed Circuit Patient Monitoring. Closed circuit television for patient monitoring may be used only when approved.

9.11 Clocks. All clocks will be battery powered.

9.12 Refrigerator Monitoring Systems. Temperature and lose of power monitoring shall be provided for the blood bank, food storage refrigerators, and other critical refrigeration equipment.

9.13 Intrusion Detection System. An intrusion detection system shall be provided to monitor all exterior doors, pharmacies, vaults, high value storage areas, funds collection and disbursement areas, and other selected critical/sensitive areas.

Section 10: FIRE PROTECTION ENGINEERING

10.1 Scope and Related Criteria.

10.1.1 Scope. The objective of this section is to provide criteria for the protection of personnel and property from loss due to fire, smoke, and related hazards.

10.1.2 Related Criteria. The following is a list of mandatory design criteria on fire protection engineering which should be reviewed in conjunction with this section.

MIL-HDBK-1008	Fire Protection For Facilities Engineering, Design, and Construction

Uniform Building Code.

10.2 Fire Protection Engineering.

10.2.1 Classification. Hospitals shall be designed as Health Care Occupancy as defined by NFPA 101 and Group I, Division 1 as defined by MIL-HDBK-1008. When appropriate fire separations are provided, clinics and administrative offices may be classified as Ambulatory Health Care Occupancy as defined by NFPA 101.

10.2.2 Fire Resistance Ratings. The construction shall conform to the minimum requirements as described in MIL-HDBK-1008.

10.2.3.3 Furnishings and Graphics. Furnishings and graphics shall not be located so as to obstruct the means of egress or the visibility of the means of egress. Wall hangings, draperies, and cubicle curtains shall conform to the flame resistance requirements of both small and large scale tests specified in UL 214 or NFPA 701. Fabrics which do not normally meet flame resistance requirements shall be treated to satisfy these requirements. When treated the fabrics should be tested for flame resistance after appropriate dry cleaning or laundering cycles as specified in UL 214 or NFPA 701.

10.3 Detection.

10.3.1 Smoke Detectors. Smoke detectors shall be placed on either side of doors in smoke barriers, every 30 feet (9000 mm) in corridors, in all storage rooms, locker rooms, and waiting rooms. The smoke detector, when activated, shall release all smoke barrier doors held open and activate the fire alarm systems as described in NFPA 101. The smoke detectors shall conform to NFPA 72A and 72E. Smoke detectors shall also be placed in ducts which penetrate a smoke barrier. The detectors shall close the damper in the ducts as described in NFPA 101.

10.3.2 Signal Systems. The signal systems consist of the manual fire alarm system, the automatic fire detection system, the automatic smoke detection system, and the extinguishing system operation alarm as described in NFPA 101, 70 and 72A. Activation of the signal systems shall automatically sound a general audible and visual alarm and automatically transmit the alarm to the appropriate fire department. Pre-signal systems shall not be provided.

Each of the alarm and detection systems required shall be provided with an alternative power supply in accordance with NFPA 72A. Fire alarm systems shall be specified to be a zone coded Positive Non-Interfering Successive (PNIS) multi-zone class A system with remote supervised annunciator panels as required. The system shall be provided with a municipal box actuation and supervisory circuit. Fire alarm system shall be designed to supervise sprinkler flow and damper alarm and fire pump status. Annunciator panel shall be graphic type and shall indicate zone, floor, device, trouble, sprinkler supervisory alarms by zone, device and floor, fire pump status.

10.3.2.1 Audible and Visual Indicators. Signaling devices shall be both audible and visual type using chimes and lights in patient areas and bells or horns and lights in other areas.

10.3.2.2 Alarm Activated Relays. Fire alarm system shall be designed with auxiliary alarm activated relays as required for shutdown, door release, elevator recall, fire and smoke damper release and smoke vent controls as required.

10.3.2.3 Alternate Power Supply. Each of the alarm and detection systems required shall be provided with an alternative power supply in accordance with NFPA 72A. The signal and alarm system may be interconnected with the energy monitoring and control system (EMCS); however, the signal and alarms shall have a manual monitor panel which will operate independently of the EMCS system.

10.4 Containment.

10.4.1 Smoke Compartments. Hospitals shall be divided into smoke compartments as indicated in NFPA 101 with smoke partitions constructed with fire resistant ratings of at least 1 hour.

10.4.2 High Hazard Areas. Any hazardous area shall be safeguarded in accordance with NFPA 101. Boiler and heater rooms, laundries, pharmacy, library, record storage, laboratories, kitchens, soiled linen rooms, paint shops, trash collection rooms, repair shops, and rooms for storage of combustible supplies and equipment, and hazardous quantities shall be protected by both one-hour rated fire resistant separation and a complete extinguishment system.

10.4.3 Laboratories. Laboratories shall be protected in accordance with NFPA 101 and NFPA 99.

10.4.4 Cooking Facilities. Commercial cooking equipment shall be installed in accordance with NFPA 96.

10.4.5 Smoke Evacuation Systems. Smoke control systems for evacuation of smoke after a fire shall be provided by portable equipment.

10.5 Extinguishment.

10.5.1 Portable Fire Extinguishers. Portable fire extinguishers are needed even though the property is equipped with automatic: sprinklers, standpipes and hose. Portable fire extinguishers shall be provided in accordance with NFPA 10. Hospitals shall be considered "light hazard" facilities.

10.5.2 Automatic Sprinkler System. One hundred percent automatic sprinkler systems shall be installed in hospitals. The sprinkler system shall be designed in accordance with NFPA 13. Hospitals shall be considered a "light hazard" occupancy. Recessed sprinkler heads or sprinkler head guards shall be provided in janitor closets and other areas where the activities may damage the sprinkler head.

10.5.2.1 Wet Pipe. Wet pipe sprinkler systems shall be provided in all areas of hospitals except where other systems described herein are required.

10.5.2.2 Dry pipe. Dry pipe systems shall be provided only where freezing temperatures may damage the systems.

10.5.2.3 Preaction systems. Preaction sprinkler systems shall be provided for computer rooms, biomedical equipment rooms, X-ray rooms, and other areas containing expensive equipment.

10.5.3 Dry Chemical Extinguishing Systems. Dry chemical extinguishing systems shall be provided for kitchen range surfaces, fryers, braizing pans, hoods, system ducts, and other areas where they may be suitably and economically used. The systems shall comply with NFPA 17.

APPENDIX A

ROOM BY ROOM DESIGN CRITERIA

KEY TO ARCHITECTURAL CRITERIA
(FIRST AND SECOND CHARACTERS)

CODE	WALL FINISH	FLOOR FINISH	BASE FINISH	CEILING FINISH	CEILING HEIGHT	CEILING SOUND INSULATION
A8	GW	VCT	R	ACT	8'-0"	YES
A9	GW	VCT	R	ACT	9'-0"	YES
A1	GW	VCT	R	ACT	10'-0"	YES
A0	GW	VCT	R	NONE	-----	NO
B8	LGC-GW	VCT	R	ACT	8'-0"	YES
B9	LGC-GW	VCT	R	ACT	9'-0"	YES
B1	LGC-GW	VCT	R	GW	8'-0"	YES
C8	LGC-GW	SV	IV	ACT	8'-0"	YES
D8	LGC-GW	SV	IV	GW	8'-0"	YES
D9	LGC-GW	SV	IV	GW	9'-0"	YES
E8	CT	CT	CT	GW	8'-0"	YES
F8	VP	VCT	R	ACT	8'-0"	YES
F9	VP	VCT	R	ACT	9'-0"	YES
G9	LGC-CB	VCT	NONE	LGC-GW	9'-0"	YES
H8	GW	CAR	R	ACT	8'-0"	YES
J8	VP	VCT	R	GW	8'-0"	YES
K8	LGC-GW	QT	QT	GYP	8'-0"	YES
K9	LGC-GW	QT	QT	GYP	9'-0"	YES
L8	LGC-GW	QT	QT	ACT	8'-0"	YES
M8	CONC BLK	VCT	R	GW	8'-0"	NO
M0	CONC BLK	VCT	R	GW	--	NO
N9	CONC BLK	SV	NONE	GW	9'-0"	YES
N0	CONC BLK	VCT	R	NONE	--	NO
P0	CONC BLK	CON	NONE	NONE	---	NO
Q8	LGC-CB	SV	IV	LGC-GW	8'-0"	NO
PR	PREFABRICATED					
EX	EXTERIOR					

ACT	Acoustical Tile
C	Non-Slip Coating
CB	Concrete Block
CT	Ceramic Tile
CONC	Concrete
CP	Carpet
GW	Gypsum Wallboard
IV	Integral Vinyl
LGC	Liquid Glaze Coating
QT	Quarry Tile
R	Rubber Base
SV	Solid Sheet Vinyl
VCT	Vinyl Composition Tile
VWF	Vinyl Wall Fabric
VP	Veneer Plaster

THIRD CHARACTER

Code	Floor Loading (psf)
A	50
B	60
C	75
D	80
E	100
F	125
G	150
H	200
I	250
J	40

KEY TO DOOR SCHEDULE

FIRST CHARACTER - DOOR SIZE

3	-	3 - 0
4	-	4 - 0
A	-	2 - 0 and 3 - 0
B	-	2 - 6 and 2 - 6

SECOND CHARACTER

A	-	NO VISION PANEL
B	-	SLIT VISION PANEL
C	-	FULL VISION PANEL
D	-	100 SQ. IN. VISION PANEL

THIRD CHARACTER

A	HW-145			
	HINGES	-	A8122 - 4 1/2 X4	
	LOCKSET	-	F76	
	STOP	-	L12251	
B	HW-146			
	HINGES	-	------	
	ROLLER LATCH	-	E19091	
	DEADLOCK	-	E2152	
	STOP	-	L12251	
	PUSH PLATE	-	J301	
	HOSPITAL ARM PULL	-	J400	
	AUTOMATIC DOOR BOTTOM SOUND DEADENING GASKETS	-	------	
C	HW-147			
	HINGES	-	------	
	LOCKSET	-	F76	
	STOP	-	L12251	
	EMERGENCY DOOR RELEASE	-	A1882 OR A8892	
D	HW-148			
	HINGES	-	------	
	ROLLER LATCH	-	E19091	
	STOP	-	L12251	(2)
	PUSH PLATE	-	J301	8" X 16"/20CM x 41CM
	HOSPITAL ARM PULL	-	J400	(2)
	ARMOR PLATE	-	J101	(2)
	FLUSH BOLT	-	L14081	
	DUST PROOF STRIKE	-	L14021	

(CONTINUED ON NEXT PAGE)

THIRD CHARACTER (CONTINUED)
ÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ

E	HW-149			
	HINGES	-	------	
	ROLLER LATCH	-	E19091	
	STOP	-	L12251	
	DEADLOCK	-	E2152	
	PUSH PLATE	-	J301	8" X 16"/20CM X 41CM
	HOSPITAL ARM PULL	-	J400	
	ARMOR PLATE	-	J101	
	FLUSH BOLT	-	L14081	
	DUST PROOF STRIKE	-	L14082	
F	HW-150			
	HINGES	-	------	
	ROLLER LATCH	-	E19091	
	STOP	-	L12251	
	DEADLOCK	-	E2152	
	PUSH PLATE	-	J301	8" X 16"/20CM X 41CM
	HOSPITAL ARM PULL	-	J401	
	ARMOR PLATE	-	J101	
G	HW-151			
	HINGES	-	------	
	ROLLER LATCH	-	E19091	
	DEADLOCK	-	E2152	
	STOP	-	L12251	
	CLOSER AND HOLD OPEN	-	C02052	
	PUSH PLATE	-	J301	8" X 16"/20CM X 41CM
	HOSPITAL ARM PULL	-	J401	
H	HW-152			
	HINGES	-	------	
	LOCK SET	-	F81	
	STOP	-	L12251	
	AUTOMATIC DOOR BOTTOM SOUND DEADENING GASKETS	-	------	
I	HW-153			
	HINGES	-	------	
	ROLLER LATCH	-	E19091	
	STOP	-	L12251	
	DEADLOCK	-	E2152	
	PUSH PLATE	-	J301	8" X 16"/20CM x 41CM
	HOSPITAL ARM PULL	-	J401	
J	HW-154			
	ROLLER LATCH	-	E19091	
	PUSH PLATE (2)	-	J301	
	CYL. LOCK & THUMB SET	-		

KEY TO DOOR SCHEDULE

THE LISTED ITEM ARE COVERED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATIONS OR THE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA) PUBLICATION BUT ARE LISTED BY BHMA DESIGNATIONS. THE ITEMS CAN BE FOUND IN THE FOLLOWING DOCUMENTS:

ANSI PUBLICATIONS:

A156.1	BUTTS AND HINGES
A156.2	LOCKS AND LOCK TRIM
A156.3	EXIT DEVICES
A156.4	DOOR CONTROLS (CLOSERS)
A156.16	AUXILIARY HARDWARE

BHMA PUBLICATIONS:

1301	MATERIALS AND FINISHES

KEY TO MECHANICAL CRITERIA

FIRST TWO CHARACTERS = MINIMUM AIR CHANGES:

CODE	TOTAL	O/A
04	4	1
06	6	1.5
10	10	2.5
12	12	3
15	15	5

THIRD CHARACTER = TEMPERATURE/HUMIDITY:

CODE	DESCRIPTION
A	78deg.F(S)-68deg.F(W)/30-60%
B	78deg.F(S)-70deg.F(W)/30-60%
C	75deg.F/30-60%
D	70-78deg.F/30-60%
E	68-76deg.F/55+5%
F	75-80deg.F/55+5%
G	75deg.F(S)-68deg.F(W)/30-60%
H	85deg.F(S)-65deg.F(W)/30-60%
I	NONE
J	80deg.F/30-60%

FOURTH CHARACTER = AIR BALANCE:

CODE	DESCRIPTION
0	0
+	+
-	-
A	++
B	--
C	---
D	++--

FIFTH CHARACTER = FILTRATION:

CODE	DESCRIPTION
A	25%
B	25% & 80%
C	25% & 90%
D	25%,90% & 99.97%
E	NONE

KEY TO MEDICAL GAS CRITERIA

Column 1 — Number of Oxygen outlets

Column 2 — Number of Vacuum outlets. These outlets are Oral Evacuation in dental spaces and medical vacuum elsewhere.

Column 3 — Number of Compressed Air outlets. These outlets are dental compressed air in dental spaces, laboratory compressed air in laboratory spaces, and medical compressed air elsewhere.

Column 4 — Number of natural gas outlets.

Column 5 — Notes.

Notes

A. Number of outlets indicated in per bed, table, workstation etc.

B. Provide 2 nitrous oxide outlets in operating rooms and 1 outlet in other designated rooms. All inhalation anesthesia or analgesia locations will have a gas evacuation system.

C. Provide 2 nitrogen outlets in operating rooms and 1 outlet in other designated rooms.

D. Each utility center requires 1 dental air and 1 oral evacuation.

E. Outlets indicated are for 6-8 bassinet nursery.

F. Provide one each oxygen, medical vacuum, and medical air at infant resuscitation area.

G. Notes B & F.

H. Notes B & C.

I. Provide one each oxygen, medical vacuum, nitrous oxide, nitrogen dental air, oral evacuation. Locate oxygen, NÚ2¿O, N, and medical vacuum on utility column.

J. Provide medical vacuum not oral evacuation.

KEY TO MEDICAL GAS CRITERIA

REMAINING CHARACTERS = NOTES:

CODE	DESCRIPTION
G	TEMP CONTROLLED
H	NO MIN O/A REQ'D
I	EXHAUST TO OUTDOOR REQ'D
J	MIN O/A IS 1 AC/HR
K	MIN O/A IS 2 AC/HR
L	MAY REQUIRE HOODS
M	MAY REQUIRE HOODS & DUST COLLECTORS
N	ROOM EXHAUST DIRECTLY OVER PATIENT STATION.
O	NEGATIVE TO ANTEROOM; POSITIVE TO TOILET; ANTEROOM SHALL BE NEGATIVE TO CORRIDOR (FOR NEGATIVE ISOLATION ROOM). FOR POSITIVE ISOLATION ROOM, REVERSE AIR FLOW AND INCREASE FILTRATION.
P	EQUAL WITH CORRIDOR; NEGATIVE TO OPERATING ROOM.
Q	EQUAL TO OPERATING ROOM.
R	OFFICE EQUAL; LAB NEGATIVE.
S	EQUAL TO STERILE CORRIDOR; POSITIVE TO PUBLIC CORRIDOR.
T	EXHAUST ALL OUTSIDE APPLICABLE TO PROCESSING ONLY.
U	THE SPACE THAT HOUSES ETHYLENE OXIDE (ETO) STERILIZERS SHOULD BE DESIGNED TO MEET THE FOLLOWING GUIDELINES: (1) PROVIDE A DEDICATED LOCAL EXHAUST SYSTEM WITH ADEQUATE CAPTURE VELOCITY (I.E., WITH A MINIMUM CAPTURE OF 200 FPM) TO ALLOW FOR THE MOST EFFECTIVE INSTALLATION OF AN AIR HANDLING SYSTEM, I.E., EXHAUST OVER STERILIZED DOOR, ATMOSPHERIC EXHAUST VENT FOR SAFETY VALVE, EXHAUST AT STERILIZER DRAIN AND EXHAUST FOR THE AERATOR AND MULTIPLE LOAD STATION; (2) PROVIDE NEGATIVE PRESSURE IN ETO SOURCE AREAS SUCH AS SERVICE/AERATION AREAS; (3) ENSURE THAT GENERAL AIR FLOW IS AWAY FROM STERILIZER OPERATOR(S); (4) PROVIDE A DEDICATED EXHAUST DUCT SYSTEM FOR ETO. THE EXHAUST OUTLET TO THE ATMOSPHERE SHOULD BE AT LEAST 25 FT FROM ANY AIR INTAKE.
V	LINT FILTER SHOULD BE CONSIDERED OVER THE EXHAUST INLETS
W	OPTIONAL FOR OFFICE, EXHAUST AIR FROM LAB TO OUTSIDE
X	ORAL SURGERY ROOMS IN HOSPITALS WILL BE TREATED AS OPERATING ROOMS. DENTAL CLINICS OPERATING IN CONJUNCTION WITH A FULL SERVICE HOSPITAL WILL BE PROVIDED ORAL SURGERY ROOMS IN ACCORDANCE WITH THE FOLLOWING: MINIMUM AIR SUPPLY 12 AC/HR, MINIMUM OUTSIDE AIR SUPPLY 3 AC/HR, RECIRCULATION WITHIN THE ROOM IS NOT PERMITTED BUT EXHAUST TO THE OUTSIDE IS NOT REQUIRED.
Y	NEGATIVE TO OPERATING ROOM; POSITIVE TO CORRIDOR.
Z	AIR SUPPLIED FROM CORRIDOR.

KEY TO ELECTRICAL SYSTEM CRITERIA

Code - XÚ1¿XÚ2¿XÚ3¿

XÚ1¿ - Level (footcandles)
- A - 5 fc
- B - 10 fc
- C - 20 fc
- D - 30 fc
- E - 50 fc
- F - 75 fc
- G -100 fc
- H -200 fc

XÚ2¿ - Control
- - - Normal manual wall switch
- A - Automatic control
- D - Dimmer
- K - Key operated switch
- K - Multiple switching to provide multilevel lighting
- T - Timer
- V - Variable control. Multiple switching with dimmer on lowest level.

XÚ3¿ - Notes
1. Provide color corrected lamps.

KEY TO COMMUNICATION CRITERIA

Code - XÚ1¿XÚ2¿XÚ3¿XÚ4¿XÚ5¿XÚ6¿XÚ7¿XÚ8¿XÚ9¿

Telephone Criteria - XÚ1¿XÚ2¿XÚ3¿XÚ4¿

XÚ1¿ - Type of Instrument
- A - Nail, single line, direct connect to Appointments Desk
- D - Desk, single line
- W - Nail, single line
- S - Desk, handsfree speaker, single line
- T - Wall, handsfree speaker, single line
- M - Desk, multiline
- C - Attendant console
- P - Pay

XÚ2¿ - Outlets/Room
- 1, 2, 3...- Specific number of outlets
- V - Number of outlets varies with size of facility
- W - Provide one outlet per workstation

XÚ3¿ - Class of Service
- A - Official Use. Access to other Class A, B, C, and I telephones and local commercial trunks, toll trunks, and other communication networks.
- B - Unofficial Use. Access to other Class A, B, C, and I telephones and local commercial trunks but not toll trunks.
- C - Official Use. Access to other Class A, B, C, and I telephones and local commercial trunks but not toll trunks.
- I - Internal Use. Intercommunications.

XÚ4¿ - Telephone notes.
1. Direct connect to central appointments.
2. Direct connect to supply control desk.
3. One telephone for two beds.

Nurse Call - XÚ5¿
- E - Clinic emergency call system
- P - Patient station
- S - Staff station
- D - Duty station
- T - Toilet emergency station
- C - Control console

Television - XÚ6¿
- W - TV outlet, wall mounted 18 in. AFF
- M - Multiple TV outlets, wall mounted 18 in. AFF
- C - TV outlet, wall mounted near ceiling
- S - Security TV camera outlet
- X - Central control/monitoring equipment for TV systems

Data - XÚ7¿
- D - Data outlet. May be integral with telephone system.

Security (IDS) / Misc. Alarms - XÚ8¿
- S - Security IDS outlet
- R - Refrigeration monitor/alarm
- A - Annunciator panel
- X - Central control/monitoring equipment

Notes - XÚ9¿
1. Provide one nurse call station per bed.
2. Provide an outlet and mounting bracket for a CCTV camera.
3. Connect to emergency suite call system.

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
6024	ADM ADMIT FILES STOR	NONE	H8A	3BA	04A0A	*****	E**	S1
0450	ADM ADMIT RECORD OFF	NONE	A8A	3AA	04A0A	*****	E**	DW
7750	ADM CENTRAL FILES/ COPIER	NONE	A8D	3CA	04A0A	*****	E**	**
0408	ADM DP MACHINE ROOM (6WKSTA)	NONE	A8E	3CA	10C0AJ	*****	D**	DW
0407	ADM DP OFFICE CH OF SERVICE	G.01	A8A	3AA	04A0A	*****	E**	DW
0372	ADM EXEC CH NURSE OFFICE	G.11	H8A	3BA	04A0A	*****	FV*	D1
0368	ADM EXEC CH NURSE SECY WAIT	G.06	H8A	3BA	04A0A	*****	C**	M1
0366	ADM EXEC CH NURSE TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0353	ADM EXEC CO CONFERENCE ROOM	G.05	H8A	3BA	04A0A	*****	DV*	T1
1583	ADM EXEC CO OFFICER OFFICE	G.08	H8A	3BA	04A0A	*****	E**	S1
0352	ADM EXEC CO SECY WAIT	G.06	H8A	3BA	04A0A	*****	C**	M1
0351	ADM EXEC CO TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
6128	ADM EXEC DAS OFFICER OFFICE	G.12	H8A	3BA	04A0A	*****	E**	D1
4043	ADM EXEC DMS OFFICER OFFICE	G.13	H8A	3BA	04A0A	*****	E**	D1
0393	ADM EXEC LEGAL OFFICER	G.01	A8A	3BA	04A0A	*****	E**	S1
0392	ADM EXEC LEGAL OFFICER SECY	G.06	H8A	3BA	04A0A	*****	C**	M1
7854	ADM EXEC OIC OFFICE	G.14	A8A	3BA	04A0A	*****	E**	S1
7855	ADM EXEC OIC SECY WAIT	G.06	A8A	3BA	04A0A	*****	E**	DV
0377	ADM EXEC PAT AFF CLERICAL	G.06	A8A	3BA	04A0A	*****	E**	DW
0378	ADM EXEC PAT AFF DECEDENT	G.01	H8A	3BA	04A0A	*****	E**	D1
0376	ADM EXEC PAT AFF OFFICER OFF	G.01	H8A	3BA	04A0A	*****	E**	D1
4037	ADM EXEC PAT AFF OFFICER ASST	G.01	A8A	3BA	04A0A	*****	E**	D1
0379	ADM EXEC PAT AFF REGISTRAT BR	G.01	A8A	3BA	04A0A	*****	E**	DW
7850	ADM EXEC PAT AFF TRANSLATOR	G.25	A8A	3BA	04A0A	*****	E**	D1
6008	ADM EXEC PUB AFF OFFICER OFF	G.26	H8A	3BA	04A0A	*****	E**	D1
0029	ADM EXEC SEN MEDICAL OFFICER	G.15	H8A	3BA	04A0A	*****	E**	D1
0354	ADM EXEC XO OFFICER OFFICE	G.08	H8A	3BA	04A0A	*****	E**	S1
0359	ADM EXEC XO SECY WAIT	G.06	H8A	3BA	04A0A	*****	C**	M1
0355	ADM EXEC XO TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
6134	ADM MAILROOM HOSPITAL	NONE	A8A	3AA	04A0A	*****	E**	D1
0432	ADM MAILROOM POST BOXES	NONE	A8A	3AA	04A0A	*****	E**	**
0429	ADM MAILROOM PUBLIC AREA	NONE	A8A	3CA	04A0A	*****	E**	**
7808	ADM OFF INFECTION CONTROL	G.01	A8A	3AA	04A0A	*****	E**	D1
6153	ADM OFFICE	G.01	A8A	3AA	04A0A	*****	E**	D1
6246	ADM OFFICE ACCOUNT SUPV	G.01	A8A	3AA	04A0A	*****	E**	D1
0043	ADM OFFICE ADMIN ASST	G.27	A8A	3AA	04A0A	*****	E**	D1
1733	ADM OFFICE ADMIN PERSONNEL	G.01	A8A	3AA	04A0A	*****	E**	DW
5714	ADM OFFICE AEROSPMED CLER	G.01	A8A	3AA	04A0A	*****	E**	DW
5715	ADM OFFICE AEROSPMED FILE ST	G.01	A8F	3CA	04A0A	*****	DA*	**
5713	ADM OFFICE AEROSPMED SAFETY	G.01	A8A	3AA	04A0A	*****	E**	D1
6171	ADM OFFICE ASSIST CHIEF OFF	G.01	A8A	3AA	04A0A	*****	E**	D1
6200	ADM OFFICE ASSIST COUPT/MANG	G.01	A8A	3AA	04A0A	*****	E**	D1
7806	ADM OFFICE ASSIST(1)	G.01	A8A	3AA	04A0A	*****	E**	D1
6185	ADM OFFICE ASSISTANT (2 MAN)	G.01	A8A	3AA	04A0A	*****	E**	DW
9002	ADM OFFICE BATTALION ADMIN	G.01	A8A	3AA	04A0A	*****	E**	D1
6247	ADM OFFICE BUDGET ANALYST	G.28	A8A	3AA	04A0A	*****	E**	D1
6003	ADM OFFICE CAREER COUNSELOR	G.29	A8A	3AA	04A0A	*****	E**	D1
9012	ADM OFFICE CHAMPUS	G.30	A8A	3AA	04A0A	*****	E**	D1
6050	ADM OFFICE CHIEF TECH	G.01	A8A	3AA	04A0A	*****	E**	D1
8511	ADM OFFICE CLAIMS	G.01	A8A	3AA	04A0A	*****	E**	D1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9808	ADM OFFICE CLERICAL RECEPTION	G.01	A8A	3AA	04A0A	*****	D**	MW
5725	ADM OFFICE CLERK STENOGRAPHER	G.01	A8A	3AA	04A0A	*****	E**	DW
0364	ADM OFFICE CLERKS	G.01	A8A	3AA	04A0A	*****	E**	DW
4058	ADM OFFICE CLERKS (3)	G.01	A8A	3AA	04A0A	*****	E**	DW
0016	ADM OFFICE CLERKS (4)	G.01	A8A	3AA	04A0A	*****	E**	DW
5719	ADM OFFICE CLINICAL ADMIN	G.31	A8A	3AA	04A0A	*****	E**	D1
0452	ADM OFFICE COLLECTION AGENT	G.01	A8A	3AA	04A0A	*****	E**	D1
6199	ADM OFFICE COMPTROLLER	G.33	A8A	3AA	04A0A	*****	E**	S1
6005	ADM OFFICE CONTINGENCY PLAN	G.34	A8A	3AA	04A0A	*****	E**	D1
7018	ADM OFFICE COUNSELOR	G.35	A8A	3AA	04A0A	*****	E**	DW
7019	ADM OFFICE DIR OFFICE	G.01	A8A	3AA	04A0A	*****	E**	D1
0447	ADM OFFICE DIR PROF EDUC SEC	G.06	A8A	3AA	04A0A	*****	E**	D1
0446	ADM OFFICE DIR PROF EDUC	G.36	A8A	3AA	04A0A	*****	E**	S1
6016	ADM OFFICE DISABILITY CONS	G.01	A8A	3AA	04A0A	*****	E**	D1
7729	ADM OFFICE EDUC COORDINATOR	G.37	A8A	3AA	04A0A	*****	E**	D1
0401	ADM OFFICE EEO	G.38	A8A	3AA	04A0A	*****	E**	D1
4048	ADM OFFICE ENLISTED SUPPORT	G.39	A8A	3AA	04A0A	*****	E**	D1
1491	ADM OFFICE ENVIRON HLTH OFF	G.40	A8A	3AA	04A0A	*****	E**	D1
6129	ADM OFFICE EXEC MCPOC OFFICE	G.01	H8A	3AA	04A0A	*****	E**	D1
4046	ADM OFFICE FACILITIES MANAG	G.01	A8A	3AA	04A0A	*****	E**	D1
6069	ADM OFFICE FAM ADVOCACY	G.41	A8A	3AA	04A0A	*****	E**	D1
5718	ADM OFFICE FINANCE OFFICE	G.42	A8A	3AA	04A0A	*****	E**	D1
0419	ADM OFFICE FISCAL ACC CLERKS	G.01	A8A	3AA	04A0A	*****	E**	DW
0416	ADM OFFICE FISCAL AGT CASH	G.01	A8A	3AA	04A0A	*****	E**	D1
0414	ADM OFFICE FISCAL BR HEAD	G.43	A8A	3AA	04A0A	*****	E**	D1
0418	ADM OFFICE FISCAL PAY CLERKS	G.01	A8A	3AA	04A0A	*****	E**	DW
0417	ADM OFFICE FISCAL SUPPLY ASST	G.01	A8A	3AA	04A0A	*****	E**	D1
0413	ADM OFFICE FISCAL/SUPPLY CH	G.44	A8A	3AA	04A0A	*****	E**	D1
7856	ADM OFFICE HEALTH BENEFITS	G.45	A8A	3AA	04A0A	*****	E**	DW
1488	ADM OFFICE INFECTION CTRL	G.46	A8A	3AA	04A0A	*****	E**	D1
0888	ADM OFFICE INSTRUCTORS OFF	G.01	A8A	3AA	04A0A	*****	E**	D1
0595	ADM OFFICE INTERNAL REVIEW	G.47	A8A	3AA	04A0A	*****	E**	D1
6034	ADM OFFICE INVESTIGATION OFF	G.48	A8A	3AA	04A0A	*****	E**	D1
5729	ADM OFFICE MAA OFFICE	G.49	A8A	3AA	04A0A	*****	E**	MV
4057	ADM OFFICE MANPOWER MANAG	G.50	A8A	3AA	04A0A	*****	E**	D1
5717	ADM OFFICE MCPOC OFFICE	G.51	A8A	3AA	04A0A	*****	E**	DW
0388	ADM OFFICE MIL LIAISON CLERKS	G.01	A8A	3AA	04A0A	*****	E**	DW
6036	ADM OFFICE MORBIDITY	G.52	A8A	3AA	04A0A	*****	E**	D1
6029	ADM OFFICE NAVY DIRECTIVES	G.01	A8A	3AA	04A0A	*****	E**	D1
0426	ADM OFFICE OOD	G.53	A8A	3AA	04A0A	*****	E**	D1
0397	ADM OFFICE PERS CIV BR(1)	G.54	A8A	3AA	04A0A	*****	E**	DW
4073	ADM OFFICE PERS CIV BR(3)	G.01	A8A	3AA	04A0A	*****	E**	DE
6001	ADM OFFICE PERS CIV MGR	G.01	A8A	3AA	04A0A	*****	E**	D1
6002	ADM OFFICE PERS CIV SECY	G.01	A8A	3AA	04A0A	*****	E**	M1
0235	ADM OFFICE PERS CLERK OFFICE	G.01	A8A	3AA	04A0A	*****	E**	DW
0396	ADM OFFICE PERS MIL BR(1)	G.01	A8A	3AA	04A0A	*****	E**	DW
4072	ADM OFFICE PERS MIL BR(3)	G.01	A8A	3AA	04A0A	*****	E**	DW
0394	ADM OFFICE PERS OFFICER	G.55	A8A	3AA	04A0A	*****	E**	D1
0395	ADM OFFICE PERS OFFICER SECY	G.01	A8A	3AA	04A0A	*****	E**	M1
0312	ADM OFFICE PERS RECORD OFF	G.01	A8A	3AA	04A0A	*****	E**	DW

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
6019	ADM OFFICE PERS SUPPORT BR	G.01	A8A	3AA	04A0A	*****	E**	DW
6037	ADM OFFICE PETTY OFFICER	G.01	A8A	3AA	04A0A	*****	E**	D1
4060	ADM OFFICE PREVENT MED CL (4)	G.01	A8A	3AA	04A0A	*****	E**	DW
0028	ADM OFFICE PREVENT MED CL (3)	G.01	A8A	3AA	04A0A	*****	E**	DW
6175	ADM OFFICE PROCURMENT CLERK	G.01	A8A	3AA	04A0A	*****	E**	D1
0093	ADM OFFICE PROPERTY ACCOUNTS	G.56	A8A	3AA	04A0A	*****	E**	D1
6113	ADM OFFICE PURCHASING OFF	G.01	A8A	3AA	04A0A	*****	E**	D1
4055	ADM OFFICE QA/RM COORD	G.01	A8A	3AA	04A0A	*****	E**	D1
6255	ADM OFFICE QUALITY ASSUR	G.01	A8A	3AA	04A0A	*****	E**	D1
6018	ADM OFFICE QUALITY ASSURANCE	G.57	A8A	3AA	04A0A	*****	E**	D1
7852	ADM OFFICE RECRUIT EVAL/TR	G.01	A8A	3AA	04A0A	*****	E**	D1
6006	ADM OFFICE REG HLTH CARE	G.01	A8A	3AA	04A0A	*****	E**	D1
6028	ADM OFFICE REPORTS MANAGMT	G.01	A8A	3AA	04A0A	*****	E**	D1
6166	ADM OFFICE SAFETY OFFICER	G.58	A8A	3AA	04A0A	*****	E**	D1
4062	ADM OFFICE SEN ENLIST ADVIS	G.59	A8A	3AA	04A0A	*****	E**	D1
0017	ADM OFFICE STANDARD	G.01	A8A	3AA	04A0A	*****	E**	D1
4047	ADM OFFICE SUPERVISOR	G.01	A8A	3AA	04A0A	*****	E**	D1
4035	ADM OFFICE TYPING POOL (4)	NONE	A8A	35A	04A0A	*****	E**	D1
4033	ADM OFFICE UCA	G.01	A8A	3AA	04A0A	*****	E**	D1
0461	ADM OPD SVCS ADM ASST	G.01	A8A	3AA	04A0A	*****	E**	D1
0402	ADM OPD SVCS CHIEF	G.60	H8A	3AA	04A0A	*****	E**	S1
0406	ADM OPD SVCS DUPL EQUIP	NONE	A8A	BCA	04A0A	*****	E**	**
4063	ADM OPD SVCS RECORD ST(2 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4064	ADM OPD SVCS RECORD ST(3 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4065	ADM OPD SVCS RECORD ST(4 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4066	ADM OPD SVCS RECORD ST(5 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4067	ADM OPD SVCS RECORD ST(6 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4068	ADM OPD SVCS RECORD ST(7 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4069	ADM OPD SVCS RECORD ST(8 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4070	ADM OPD SVCS RECORD ST(9 AISL	NONE	A8A	3AA	04A0A	*****	DA*	**
4071	ADM OPD SVCS RECORD ST(10 AIS	NONE	A8A	3AA	04A0A	*****	DA*	**
0039	ADM OPD SVCS RECORDS STORAGE	NONE	A8F	3CA	04A0A	*****	DA*	**
0405	ADM OPD SVCS SEC CLERKS	NONE	A8A	3AA	04A0A	*****	E**	DW
0404	ADM OPD SVCS SEC OFFICER	G.01	A8A	3AA	04A0A	*****	E**	D1
0462	ADM OPD SVCS SECY WAIT	G.06	H8A	3AA	04A0A	*****	C**	D1
6198	ADM RECORDS	NONE	A8F	3CA	04A0A	*****	E**	DW
6072	ADM RECORDS ARCHIVES	NONE	A8F	3CA	04A0A	*****	DA*	D1
0391	ADM RECORDS GEN SVCS CEN F1	NONE	A8F	3CA	04A0A	*****	E**	D1
8001	ADM RECORDS HEALTH RECORDS	NONE	A8F	3AA	04A0A	*****	E**	D1
9011	ADM RECORDS HEALTH REC INFO	NONE	A8A	3AA	04A0A	*****	D**	D1
6020	ADM RECORDS MED INF SUP OFF	G.01	A8A	3AA	04A0A	*****	E**	D1
0380	ADM RECORDS MED REC BR (5)	NONE	A8A	3AA	04A0A	*****	E**	DW
4074	ADM RECORDS MED REC BR (3)	NONE	A8A	3AA	04A0A	*****	E**	DW
0385	ADM RECORDS MED REC DRS WKRM	NONE	A8A	3AA	04A0A	*****	E**	DW
0383	ADM RECORDS MED REC SPECIMEN	NONE	A8A	3AA	04A0A	*****	E**	DW
0384	ADM RECORDS MED REC STORAGE	NONE	A8F	3CA	04A0A	*****	DA*	**
0382	ADM RECORDS MED REC SUPV	NONE	A8A	3AA	04A0A	*****	E**	D1
0381	ADM RECORDS MED REC TRANS (4)	NONE	A8A	3AA	04A0A	*****	E**	DW
4075	ADM RECORDS MED REC TRANS (3)	NONE	A8A	3AA	04A0A	*****	E**	DW
0459	ADM RECORDS OUTPAT REC CL	NONE	A8A	3AA	04A0A	*****	E**	DW

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
0458	ADM RECORDS OUTPAT RECORDS	NONE	A8F	3CA	04A0A	*****	E**	D1
9010	ADM RECORDS OUTPAT RECORDS ST	NONE	A8F	3CA	04A0A	*****	DA*	**
1581	ADM RECORDS RECEPTION AREA	NONE	H8E	3CA	04A0A	*****	D**	**
0464	ADM RECORDS TRANSCRIBING ST	NONE	A8A	3AA	04A0A	*****	E**	D1
0013	ADM STORAGE	NONE	A8F	BAA	04A0A	*****	AA*	**
6014	ADM TRAINING A/V STORAGE	NONE	A8F	3AA	04A0A	*****	AA*	**
6150	ADM TRAINING A/V/STOR	NONE	A8F	3AA	04A0A	*****	AA*	**
0400	ADM TRAINING BRANCH CLERKS	G.01	A8A	3AA	04A0A	*****	E**	DW
0398	ADM TRAINING BRANCH OFFICER	G.01	A8A	3AA	04A0A	*****	E**	D1
0034	ADM TRAINING CLASS ROOM	G.07	A8A	3BA	04A0A	*****	FV*	W1
0369	ADM TRAINING COMMAND ED FILE	NONE	A8D	3AA	04A0A	*****	DA*	D1
1242	ADM TRAINING ED STUDENT CARR	NONE	A8A	***	04A0A	*****	E**	D1
1597	ADM TRAINING ED SUPV OFFICE	G.01	A8A	3AA	04A0A	*****	E**	D1
1241	ADM TRAINING ED TRNG AIDS	G.01	A8A	3AA	04A0A	*****	AA*	D1
0479	ADM TRAINING EDUC TR CTR	G.05	H8A	3BA	04A0A	*****	DV*	W1
6148	ADM TRAINING LECTURE	NONE	A8A	3BA	04A0A	*****	FV*	D1
5710	ADM TRAINING MIL TRNG OFF	G.01	A8A	3AA	04A0A	*****	1**	D1
0238	ADM TRAINING/CAREER COUNS	G.01	A8A	3AA	04A0A	*****	FV*	D1
0431	ADM US POSTAL REC ROOM	NONE	A8A	3AA	04A0A	*****	E**	D1
0430	ADM US POSTAL WORK AREA	NONE	A8A	3CA	04A0A	*****	E**	D1
6080	ANC LAB ADM CHIEF OF LAB	G.01	H8A	3BA	04A0A	*****	E**	D1
0964	ANC LAB ADM CHIEF OF LAB SEC	G.06	A8A	3BA	04A0A	*****	E**	M1
0965	ANC LAB ADM CLERICAL OFFICE	G.01	A8A	3BA	04A0A	*****	E**	DW
0959	ANC LAB ADM RECS ACCESSIONING	NONE	A8A	3CA	04A0A	*****	EA*	D1
0963	ANC LAB ADM RESIDENTS OFF	G.01	A8A	3BA	04A0A	*****	E**	D1
1023	ANC LAB BACTERIAL MEDIA STOR	NONE	B8E	3CA	06A0A	*****	E**	**
6079	ANC LAB BLOOD DRAW	NONE	B8A	3AA	06A0A	*****	E**	W1
0030	ANC LAB CONTROL	C.10	A8E	***	04A0A	*****	E**	S2
1849	ANC LAB CULTURE MEDIUM PREP	NONE	B8E	3CA	06A-AI	*****	F**	W1
6090	ANC LAB DONOR BLOOD PROC	NONE	B8E	3CA	06A+A	*****	D**	W1
6091	ANC LAB DONOR BLOOD STOR	NONE	B8F	3CA	06A+A	*****	E**	**
1843	ANC LAB DONOR COMP PREP	NONE	B8A	3AA	06A+A	*****	E**	W1
0211	ANC LAB DONOR DRAWING AREA	NONE	B8A	3AA	06A0A	*****	E**	W1
0987	ANC LAB DONOR MOBIL STOR	NONE	B8F	3AA	04A0A	*****	DA*	**
0977	ANC LAB DONOR PRELIM PROC	NONE	B8A	3AA	06A0A	*****	E**	W1
0981	ANC LAB DONOR RECOVRY	NONE	B8A	3AA	06A0A	*****	D**	**
0991	ANC LAB DONOR TRANSF BLOOD ST	NONE	B8F	3CA	06A0A	*****	EA*	**
0988	ANC LAB DONOR TRANSF OFFICE	NONE	B8A	3AA	06A0A	*****	E**	D1
1293	ANC LAB FROZEN SECTION LAB	B.09	B8A	3CA	06A-AI	*****	E**	W1
0065	ANC LAB GLASS WASHING/STERIL	C.17	B8E	3CA	10A-AI	*****	E**	W1
7740	ANC LAB INDUSTRIAL (12 STA)	C.12	B8E	3CA	06A-AI	*****	F**	DW
7753	ANC LAB INDUSTRIAL (12)	C.12	B8E	3CA	06A-AI	*****	F**	DW
0138	ANC LAB MEDIA PREP	NONE	B8E	3CA	06A-AI	*****	F**	W1
7031	ANC LAB MOD AUTO ANALYZER	NONE	B8E	3CA	06A-AI	*****	F**	W1
6096	ANC LAB MOD BACTERIOLOGY	C.13	B8E	3CA	06A-AI	*****	F**	W1
5709	ANC LAB MOD BACTI ENTOMOL	C.13	B8E	3CA	06A-AI	*****	F**	W1
7024	ANC LAB MOD CHEMISTRY	C.12	B8E	3CA	06A-AI	*****	F**	W1
7033	ANC LAB MOD CHEMISTRY SPEC	C.12	B8E	3CA	06A-AI	*****	F**	W1
6099	ANC LAB MOD CYTOLOGY	C.14	B8E	3CA	06A-AI	*****	F**	W1
7027	ANC LAB MOD HEMATOLOGY	C.12	B8E	3CA	06A-AI	*****	F**	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
1359	ANC LAB MOD HISTOPATHOLOGY	C.15	B8E	3CA	06A-AI	*****	F**	W1
6094	ANC LAB MOD OPEN WORK	C.12	B8E	3CA	06A-AI	*****	F**	WV
0067	ANC LAB MOD OPEN WORK CL(2ST)	C.12	B8E	3CA	06A-AI	*****	F**	W1
1025	ANC LAB MOD PARASITOLOGY	C.13	B8E	3CA	06A-AI	*****	F**	W1
0185	ANC LAB MOD PATHOLOGIST WK ST	C.14	B8E	3CA	06A-AI	*****	F**	W1
7025	ANC LAB MOD SEROLOGY	C.12	B8E	3CA	06A-AI	*****	F**	W1
7032	ANC LAB MOD SPECIAL CHEM	C.12	B8E	3CA	06A-AI	*****	F**	W1
7029	ANC LAB MOD SPECIAL HEMAT	C.12	B8E	3CA	06A-AI	*****	F**	W1
7026	ANC LAB MOD SPECIFIC SEROL	C.12	B8E	3CA	06A-AI	*****	F**	W1
7030	ANC LAB MOD STAT CHEMISTRY	C.12	B8E	3CA	06A-AI	*****	F**	W1
0960	ANC LAB MOD STAT LAB	C.12	B8E	3CA	06A-AI	*****	F**	W1
6098	ANC LAB MOD TB	C.14	B8E	3CA	06A-AI	*****	F**	W1
1010	ANC LAB MOD TOXICOLOGY	C.13	B8E	3CA	06A-AI	*****	F**	W1
7028	ANC LAB MOD URINALYSIS	C.12	B8E	3CA	06A-AI	*****	F**	W1
6085	ANC LAB MORGUE AUTOPSY	F.01	B9E	BAF	12A-AI	*111A	F**	W1
6083	ANC LAB MORGUE BODY STOR	NONE	PRF	BAF	06A-AI	*****	CA*	**
6086	ANC LAB MORGUE SHR TOILT LKR	NONE	E8C	3AJ	10ICEI	*****	CA*	**
7802	ANC LAB MORTUARY BODY PREP	NONE	B8E	BAF	10C-A	*111A	E**	W1
7803	ANC LAB MORTUARY STORAGE	NONE	A8F	BAF	04C-A	*****	C**	**
7706	ANC LAB REFRIG STOR	NONE	A8F	3AA	06A-AI	*****	BA*	**
0942	ANC LAB SLIDE FILES	C.16	B8E	3CA	06A-AI	*****	DA*	**
8005	ANC LAB SMALL	C.12	B8E	3CA	06A-AI	*****	F**	W1
0672	ANC LAB STORAGE	NONE	A8F	3CA	06A-AI	*****	CA*	**
1837	ANC LAB SUR PTH GROSSING	C.14	B8E	3CA	06A-AI	*****	E**	T2
6088	ANC LAB SUR PTH SLIDE STOR	C.16	B8F	3CA	06A-AI	*****	CA*	**
6093	ANC LAB TECH WATCH RM	NONE	A8A	3AA	04A0A	*****	B**	D1
6077	ANC LAB TOILET FEMALE SPEC	D.21	E8C	3AJ	10ICEI	*****	CA*	**
6076	ANC LAB TOILET MALE SPECIMEN	D.21	E8C	3AJ	10ICEI	*****	CA*	**
0064	ANC LAB VENIPUNCTURE	C.11	B8A	3AA	06A-A	*****	E**	W1
6078	ANC LAB VENIPUNCTURE STATION	C.11	B8A	3AA	06A-A	*****	E**	**
6070	ANC PHARM ASST PHARM CHIEF	A.09	A8A	3BA	04A0A	*****	E**	D1
0892	ANC PHARM CHIEF OFFICE	G.01	H8A	3BA	04A0A	*****	E**	S1
0895	ANC PHARM CLERICAL	G.01	A8A	3BA	04A0A	*****	E**	M1
8004	ANC PHARM DISPENSING SMALL	C.18	A8A	3AA	04A+A	*****	G**	W1
0891	ANC PHARM DRUG INFO CENTER	NONE	A8A	3BA	04A0A	*****	E**	D1
6102	ANC PHARM FLAM STOR	NONE	M8F	3AA	04A-AI	*****	C**	**
0018	ANC PHARM I.V. ADDITIVE ROOM	C.22	C8E	3CA	04A+A	*****	G**	W1
0905	ANC PHARM TECH TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0904	ANC PHARM TECH WATCH RM	NONE	A8A	3AA	04A0A	*****	R**	D1
4061	ANC PHARM TRIMIS ROOM	NONE	A8E	3CA	10C0AJ	*****	D**	WW
6242	ANC PHARM VAULT	NONE	M8F	***	04A0A	*****	AA*	**
0023	ANC PHARM WK AREA BULK COMP	C.20	A8E	3CA	04A+A	*11**	G**	W1
0022	ANC PHARM WK AREA BULK STOR	NONE	A8F	3CA	04A+A	*****	DA*	W1
8503	ANC PHARM WK AREA DISP SMALL	NONE	A8A	3AA	04A+A	*****	G**	W1
0020	ANC PHARM WK AREA DISPENSING	C.18	A8E	3AA	04A+A	*****	G**	W1
0903	ANC PHARM WK AREA HOSP ISSUE	MC.B1	A8E	3AA	04A+A	*****	G**	W1
0021	ANC PHARM WK AREA ISSUE ASSB	C.21	A8E	3AA	04A+A	*****	G**	W1
0019	ANC PHARM WK AREA PACK/LBL	C.19	A8E	3CA	04A+A	*****	G**	W1
0899	ANC PHARM WK AREA UNIT DOSE	C.21	A8E	3CA	04A+A	*****	G**	W1
1059	ANC XRAY ADM ASST CHIEF	G.01	A8A	3AA	04A0A	*****	E**	D1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
1055	ANC XRAY ADM CHIEF OFFICE	G.01	H8A	3AA	04A0A	*****	E**	D1
1062	ANC XRAY ADM CLERICAL	G.01	A8A	3AA	04A0A	*****	E**	D1
0318	ANC XRAY BARIUM PREP	C.03	B8A	3AA	04A0A	*****	D**	**
6107	ANC XRAY DIAG ANGIOGRAPHY	NONE	A1C	4AF	04B0A	111**	EV*	W1
0078	ANC XRAY DIAG CHEST XRAY	NONE	A1C	4AF	04B0A	*****	BM*	W1
6106	ANC XRAY DIAG FRANKLIN HEAD	NONE	A1C	4AF	04B0A	*****	BM*	W1
4123	ANC XRAY DIAG MAMMOGRAPHY	C.07	A8C	4AF	04B0A	*****	BM*	W1
1090	ANC XRAY DIAG ULTRASOUND	C.08	A8C	4AF	04B0A	*****	EM*	W1
0075	ANC XRAY DIAG XRAY/FLUOR	C.02	A1C	4AF	04B0A	*****	BM*	W1
1066	ANC XRAY DIAG XRAY/GENERAL	C.01	A1C	4AF	04B0A	*****	BM*	W1
0074	ANC XRAY DIAG XRAY/RAD CHEST	C.02	A1C	4AF	04B0A	*****	BM*	W1
9027	ANC XRAY DIAG XRAY/RAD FLUOR	C.02	A1C	4AF	04B0A	*****	BM*	W1
9028	ANC XRAY DIAG XRAY/TOMO	C.02	A1C	4AF	04B0A	*****	BM*	W1
1073	ANC XRAY DRESS BOOTH FEM	NONE	A8A	3AJ	04B0A	*****	CA*	**
1072	ANC XRAY DRESS BOOTH MALE	NONE	A8A	3AJ	04B0A	*****	CA*	**
0072	ANC XRAY FILM FILE	C.05	B8H	3CF	04A0A	*****	DA*	W1
0704	ANC XRAY FILM PROCESS AUTO	C.04	B8E	3AA	10G-AI	*****	C**	W1
1087	ANC XRAY FILM PROCESSING	C.04	B8E	3AA	10G-AI	*****	C**	W1
1076	ANC XRAY FILM SORTING AREA	NONE	A8E	3CA	10G-AI	*****	E**	W1
1141	ANC XRAY FILM STORAGE CINE	NONE	A8F	3CF	04A0A	*****	AA*	W1
1054	ANC XRAY FILM TEACH FILES	NONE	A8F	3CF	04A0A	*****	D**	W1
1060	ANC XRAY FILM VIEW CONSULT	C.06	A8A	3CA	04A0A	*****	D**	WV
1071	ANC XRAY PATIENT HOLDING	NONE	F8A	***	04B0A	*****	C**	**
1077	ANC XRAY PORTA X RAY STOR	NONE	F8C	***	04A0A	*****	AA*	**
1079	ANC XRAY TECHN TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1078	ANC XRAY TECHN WATCH RM	NONE	A8A	3AA	04A0A	*****	C**	D1
1069	ANC XRAY TOILET FLOURO	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1408	CHAPEL ADMIN	G.01	H8A	3AA	04A0A	*****	C**	D1
1407	CHAPEL MEDITATION	NONE	H8A	3AA	04A0A	*****	D**	**
6160	CHAPEL NAVE	NONE	H8A	3AA	04A0A	*****	D**	**
1410	CHAPEL OFFICE	G.01	H8A	3AA	04A0A	*****	E**	D1
6161	CHAPEL SACRISTY	NONE	H8A	3AA	04A0A	*****	D**	**
1411	CHAPEL SECY CLERK	G.06	H8A	3AA	04A0A	*****	E**	D1
1409	CHAPEL VESTMTS STOR	NONE	H8A	3AA	04A0A	*****	CA*	**
0720	CL A/V STOR	NONE	A8A	3AA	04A0A	*****	AA*	**
0041	CL ADM ADDRESSOGRAPH	NONE	A8A	3AA	04A0A	*****	CA*	D1
0042	CL ADM CENTRAL APPOINTMENTS	F.04	A8A	3AA	04A0A	*****	E**	DV
0457	CL ADM CENTRAL APPTS	F.04	A8A	3AA	04A0A	*****	E**	DV
0387	CL ADM CHAMPUS OFFICE	G.01	A8A	3AA	04A0A	*****	E**	DW
0456	CL ADM RECEPTION	NONE	A8A	3BA	04A0A	*****	D**	DV
0529	CL CHIEF CARDIOLOGY	G.04	H8A	3AA	04A0A	*****	E**	S1
0552	CL CHIEF ENDOCRINDLOGY	G.04	H8A	3AA	04A0A	*****	E**	S1
0607	CL CHIEF GASTROENTEROL	G.04	H8A	3AA	04A0A	*****	E**	S1
5700	CL CHIEF INDUST HYG	G.04	H8A	3AA	04A0A	*****	E**	S1
0508	CL CHIEF INFECT DISEASE	G.04	H8A	3AA	04A0A	*****	E**	S1
0563	CL CHIEF INHAL THERAPY	G.04	H8A	3AA	04A0A	*****	I**	S1
0579	CL CHIEF NEPHROLOGY	G.04	H8A	3AA	04A0A	*****	E**	S1
0626	CL CHIEF NEUROLOGY	G.04	H8A	3AA	04A0A	*****	E**	S1
0665	CL CHIEF NEUROSURGERY	G.04	H8A	3AA	04A0A	*****	E**	S1
6004	CL CHIEF OF SERVICE	G.04	H8A	3AA	04A0A	*****	E**	S1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
6133	CL CHIEF OF SERVICE SEC	G.04	H8A	3AA	04A0A	*****	E**	M1
6137	CL CHIEF OF SERVICE TOILET	G.04	E8C	3AA	10ICEI	*****	E**	**
0684	CL CHIEF ORTHOPEDICS	G.04	H8A	3AA	04A0A	*****	E**	S1
0755	CL CHIEF OTORHINOLARYN	G.04	H8A	3AA	04A0A	*****	E**	S1
0549	CL CHIEF PULMON DISEASE	G.04	H8A	3AA	04A0A	*****	E**	S1
1634	CL CHIEF THORACIC	G.04	H8A	3AA	04A0A	*****	E**	S1
4083	CL CONFERENCE/ LIBRARY	G.05	A8A	3BA	04A0A	*****	E**	W1
0002	CL CONTROL	D.01	A8E	***	04A0A	*****	E**	S2
6065	CL CONTROL TRIAGE/FRONT DESK	D.10	A8E	***	04A0A	*****	E**	S2
7860	CL CSR CENTRAL STERILIZATION	E.12	A8F	BCF	06G+A	*****	DA*	D1
7859	CL CSR INSTRMNT SCRUB PREP	NONE	B8F	3CF	06G-A	*****	E**	W1
0004	CL DOCTOR OFFICE	D.04	A8A	3AA	04A0A	*****	E**	D1
6039	CL DOCTOR OFFICE CARDIO	D.04	A8A	3AA	04A0A	*****	E**	D1
0862	CL DOCTOR OFFICE CHILD PSHY	D.04	H8A	3AA	04A0A	*****	E**	D1
0744	CL DOCTOR OFFICE OPHTHALMO	D.37	A8A	3AA	04A0A	*****	E**	D1
0734	CL DOCTOR OFFICE OPTOMETRY	D.04	A8A	3AA	04A0A	*****	E**	D1
0844	CL DOCTOR OFFICE PSYCHO	D.04	H8A	3AA	04A0A	*****	E**	D1
1174	CL DOCTOR OFFICE RESIDENTS	D.04	A8A	3AA	04A0A	*****	E**	D1
0875	CL DOCTOR OFFICE UROLOGY	D.04	A8A	3AA	04A0A	*****	E**	D1
0861	CL DOCTORS OFFICE PSYCHIATR	D.66	A8A	3AA	04A0A	*****	E**	D1
9018	CL ER AMBULANCE DISPATCH	D.14	A8A	3CA	04A0A	*****	E**	S2
8501	CL ER AREA HOLDING	NONE	F8A	***	04A0A	*****	E**	**
7817	CL ER CORPS SCREENING ROOM	D.03	A8A	3BE	04A0A	*****	E**	W1
0054	CL ER EMERG EQUIP STORAGE	NONE	A8F	3AA	04A0A	*****	AA*	**
0048	CL ER EMERGENCY CONTROL	D.10	A8E	***	04A0A	*****	E**	S2
9015	CL ER EMERGENCY ROOM	D.11	B9B	ABE	12E+BG	221*A	G**	T1
0314	CL ER EMERGENCY WAITING RM	NONE	A8E	***	04A0A	*****	C**	P1
0782	CL ER FAMILY WAIT CONSLT	A.09	H8A	3BA	04A0A	*****	C**	P1
4017	CL ER INTERVIEW RM	NONE	A8A	3BA	04A0A	*****	D**	D1
0055	CL ER LITTER WHEELCHAIR STOR	NONE	A8A	3AA	04A0A	*****	AA*	**
7800	CL ER MEDEVAC OFFICE	G.01	A8A	3AA	04A0A	*****	E**	D1
7801	CL ER MEDEVAC WAITING	NONE	H8E	3C*	04A0A	*****	E**	P1
1469	CL ER MOB EQUIP STORAGE	NONE	A8F	3AA	04A0A	*****	AA*	**
7816	CL ER STERILE STORAGE	NONE	A8F	3AA	04A+A	*****	D**	**
6122	CL ER SUBSTERILE AREA	D.12	B8F	3AA	06A+A	*****	D**	**
8003	CL ER SUBSTERILIZATION ROOM	D.12	B8F	3AA	06A+A	*****	D**	W1
0005	CL EXAM ROOM	D.03	A8A	3AA	04A0A	*****	E**	W1
0040	CL EXAM ROOM CARDIOLOGIST	D.03	A8A	3AA	04A0A	*****	E**	W1
9006	CL EXAM ROOM CH SERVICE	D.03	A8A	3AA	04A0A	*****	E**	W1
0477	CL EXAM ROOM CHAIR TABLE	D.45	A8A	3AA	O4A0A	*****	E**	W1
0504	CL EXAM ROOM ECG	D.23	A8A	3AA	04A0A	111**	E**	W1
1106	CL EXAM ROOM ENT	D.45	A8A	3AA	04A0A	*****	E**	W1
9026	CL EXAM ROOM EYE LANE	D.36	A8A	3AA	04A0A	*****	EV*	W1
0177	CL EXAM ROOM OBSERVATION	D.03	A8A	3AA	04A0A	*****	E**	W1
0605	CL EXAM ROOM PHYS ASST	D.03	A8A	3AA	04A0A	*****	E**	W1
0056	CL EXAM ROOM PHYSICAL	D.15	A8A	3AA	04A0A	*****	E**	W1
0846	CL EXAM ROOM PSYCHIATRY	D.03	A8A	3AA	04A0A	*****	E**	W1
0853	CL EXAM ROOM PSYCHOLOGIST	D.03	A8A	3AA	04A0A	*****	E**	W1
1175	CL EXAM ROOM RESIDENT	D.03	A8A	3AA	04A0A	*****	E**	W1
7722	CL EXAM ROOM SOCIAL WORKER	D.03	A8A	3AA	04A0A	*****	E**	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
6047	CL EXAM ROOM STRESS TEST	D.03	A8A	3AA	04A0A	111**	E**	W1
1104	CL EXAM ROOM THERAPY	D.03	A8A	3AA	04A0A	*****	E**	W1
6064	CL EXAM ROOM THERMIA	D.03	A8A	3AA	04A0A	*****	E**	W1
0768	CL EXAM ROOM VESTIBULAR	B.03	A8A	3AA	04A0A	*****	E**	W1
6038	CL EXAM ROOM VITAL SIGNS	D.03	A8A	3AA	04A0A	*****	E**	W1
7752	CL FILE ROOM	NONE	A8F	3CA	04A0A	*****	E**	**
7747	CL FORM WRITING	NONE	A8A	3AA	04A0A	*****	E**	**
0044	CL IMMUNIZATION ROOM	D.06	A8A	3AA	04A0A	*****	E**	W1
7839	CL INTERVIEW	NONE	A8A	3AA	04A0A	*****	E**	D1
0522	CL LAB ALLERGEN PREP LAB	D.58	B8E	3CA	06A-AI	*****	E**	W1
0498	CL LAB DERMATOLOGY	D.32	B8E	3CA	06A-AI	*****	E*1	W1
8533	CL LAB DOSIMETRY	D.58	B8E	3CA	06A-AI	*****	F**	W1
0573	CL LAB ENDOCRINE	D.58	B8E	3CA	06A-AI	*****	F**	W1
0772	CL LAB HEAR AID	D.58	B8E	3CA	06A-AI	*****	F**	W1
1178	CL LAB HOT	D.62	C8E	3CA	06A-AI	*****	F**	W1
6131	CL LAB INDUST	C.12	B8E	3CA	06A-AI	*****	F**	W1
0036	CL LAB INDUSTRIAL SANITATION	C.12	B8E	3CA	06A-AI	*****	F**	W1
0519	CL LAB INFECT DISEASE	C.12	B8E	3CA	06A-AI	*****	F**	W1
0590	CL LAB NEPHROL RESEARCH	D.58	B8E	3CA	06A-AI	*****	F**	W1
1181	CL LAB NUC MED	D.65	B8E	3CA	06A-AI	*****	F**	W1
1191	CL LAB PHYSICIS COUNTING	D.58	B8E	3CA	06A-AI	*****	F**	W1
4041	CL LAB PREV MED	C.12	B8E	3CA	06A-AI	*****	F**	W1
6045	CL LAB PULMONARY FUNCTION	D.58	B8E	3CA	06A-AI	*****	F**	W1
8532	CL LAB RADIO ANALYSIS	D.62	C8E	3CA	06A-AI	*****	F**	W1
1193	CL LAB RADIOCHEMIST	D.62	B8E	3CA	06A-AI	*****	F**	W1
7726	CL LAB SAMPLE R CV/PROCESS	NONE	B8E	3CA	06A-AI	*****	F**	W1
0886	CL LAB UROLOGY LAB	D.58	B8E	3CA	06A-AI	*****	F**	W1
6143	CL LIBRARY/FILES STOR	NONE	A8F	3CA	04A0A	*****	E**	**
0135	CL LOUNGE	NONE	H8A	3BA	04A0A	*****	BA*	W1
0285	CL LOUNGE CONFERENCE	NONE	H8A	3BA	04A0A	*****	DA*	W1
7730	CL OFFICE AUDIO CLERK	G.03	A8A	3AA	04A0A	*****	E**	D1
7842	CL OFFICE AVIAT MED TECHS(4)	G.03	A8A	3AA	04A0A	*****	E**	DW
4045	CL OFFICE CLERICAL	G.01	A8A	3AA	04A0A	*****	E**	DW
7721	CL OFFICE COMPENS/FILES	G.01	A8A	3AA	04A0A	*****	E**	D1
7820	CL OFFICE COUNSELOR	NONE	A8A	3AA	04A0A	*****	E**	D1
7823	CL OFFICE COUNSELOR (4 MAN)	NONE	A8A	3AA	04A0A	*****	E**	D1
7822	CL OFFICE COUNSELOR (8 MAN)	NONE	A8A	3AA	04A0A	*****	E**	D1
0327	CL OFFICE DEPT DIRECTOR	G.03	H8A	3AA	04A0A	*****	E**	S1
7725	CL OFFICE DP ENTRY	G.03	A8A	3AA	04A0A	*****	E**	DW
7824	CL OFFICE EDUC/INFO	NONE	A8A	3AA	04A0A	*****	E**	D1
7857	CL OFFICE ENVIRO HEALTH	G.01	A8A	3AA	04A0A	*****	E**	D1
7797	CL OFFICE FAMILY ADVOCACY	D.70	A8A	3AA	04A0A	*****	E**	D1
5701	CL OFFICE INDUST HYG	G.03	A8A	3AA	04A0A	*****	E**	D1
5703	CL OFFICE INDUST HYG CLER	G.03	A8A	3AA	04A0A	*****	E**	D1
7743	CL OFFICE INDUST HYG CLER(3)	NONE	A8A	3AA	04A0A	*****	E**	DW
5702	CL OFFICE INDUST HYG TECH	G.03	A8A	3AA	04A0A	*****	E**	DW
4042	CL OFFICE INDUST HYG TECH (4)	G.03	A8A	3AA	04A0A	*****	E**	DW
7742	CL OFFICE INDUST HYG TECH(15)	NONE	A8A	3AA	04A0A	*****	E**	DW
7838	CL OFFICE INDUST HYG TECH (2)	G.03	A8A	3AA	04A0A	*****	E**	D1
1030	CL OFFICE MYCOLOGY	G.03	A8A	3AA	04A0A	*****	E**	D1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
1184	CL OFFICE NUC MED TECHS	G.03	A8A	3AA	04A0A	*****	E**	DW
0003	CL OFFICE NURSE	D.02	A8A	3AA	04A0A	*****	E**	D1
6056	CL OFFICE NURSE PRACTITIONER	D.02	A8A	3AA	04A0A	*****	E**	D1
7720	CL OFFICE OCC HLTH SUPV	G.01	A8A	3AA	04A0A	*****	E**	D1
7841	CL OFFICE OCCUPAT HEALTH REC	G.03	A8A	3AA	04A0A	*****	E**	DW
5720	CL OFFICE OCCUPAT HLTH CHF	G.61	A8A	3AA	04A0A	*****	E**	D1
4040	CL OFFICE OCCUPAT HLTH CL(5)	G.01	A8A	3AA	04A0A	*****	E**	DW
8518	CL OFFICE OCCUPAT HLTH CLER	G.01	A8A	3AA	04A0A	*****	E**	DW
0780	CL OFFICE OCCUPAT HLTH DIR	G.61	H8A	3AA	04A0A	*****	E**	D1
0614	CL OFFICE OCCUPAT HLTH INTERV	G.01	A8A	3AA	04A0A	*****	E**	D1
5721	CL OFFICE OCCUPAT HLTH LIB	G.03	H8A	3AA	04A0A	*****	E**	D1
5722	CL OFFICE OCCUPAT HLTH SUPR	G.03	A8A	3AA	04A0A	*****	E**	D1
0774	CL OFFICE P MED TECH (14)	NONE	A8A	3AA	04A0A	*****	E**	DW
7840	CL OFFICE PATIENT AFFAIRS	G.03	A8A	3AA	04A0A	*****	E**	D1
1436	CL OFFICE PATIENT CONSULTANT	G.01	A8A	3AA	04A0A	*****	E**	D1
0008	CL OFFICE PHYSICIAN ASST	D.04	A8A	3AA	04A0A	*****	E**	D1
1190	CL OFFICE PHYSICISTS	D.04	A8A	3AA	04A0A	*****	E**	D1
0696	CL OFFICE PODIATRISTS	D.04	A8A	3AA	04A0A	*****	E**	D1
1489	CL OFFICE PREV MED TECHS 4	NONE	A8A	3AA	04A0A	*****	E**	DW
0025	CL OFFICE PREV MED TECHS (3)	NONE	A8A	3AA	04A0A	*****	E**	DW
4059	CL OFFICE PREVENT MED TECHS	NONE	A8A	3AA	04A0A	*****	E**	DW
0035	CL OFFICE PREVENTIVE MED	G.03	A8A	3AA	04A0A	*****	E**	D1
0845	CL OFFICE PSYCHIATRIST	G.03	H8A	3AA	04A0A	*****	E**	D1
1103	CL OFFICE RAD HLTH ADM ASST	G.03	A8A	3AA	04A0A	*****	E**	D1
5704	CL OFFICE RAD HLTH CHIEF	G.62	A8A	3AA	04A0A	*****	E**	D1
8529	CL OFFICE RAD HLTH DIRECTOR	G.17	H8A	3AA	04A0A	*****	E**	D1
8535	CL OFFICE RAD HLTH FILES	NONE	A8A	3AA	04A0A	*****	E**	**
7755	CL OFFICE RAD HLTH REC CLERK	G.03	A8A	3AA	04A0A	*****	E**	DW
0330	CL OFFICE RAD HLTH SAMP	NONE	A8A	3AA	04A0A	*****	E**	**
7754	CL OFFICE RAD HLTH SECY WAIT	G.06	A8A	3AA	04A0A	*****	E**	M1
1137	CL OFFICE RAD PHYSICS	G.03	A8A	3AA	04A0A	*****	E**	D1
7809	CL OFFICE RADIATION AUDIT	G.03	A8A	3AA	04A0A	*****	E**	D1
1496	CL OFFICE RADIATION SAFETY	G.03	A8A	3AA	04A0A	*****	E**	D1
1013	CL OFFICE RADIOCHEM	G.03	A8A	3AA	04A0A	*****	E**	D1
0843	CL OFFICE SOCIAL WORKER	G.03	A8A	3AA	04A0A	*****	E**	D1
0545	CL OFFICE TECHNICIANS	G.03	A8A	3AA	04A0A	*****	E**	D1
0572	CL OFFICE TECHNICIANS	G.03	A8A	3AA	04A0A	*****	E**	D1
6140	CL OFFICE THERAPIST	G.03	A8A	3AA	04A0A	*****	E**	D1
7821	CL OFFICE VOL COUNSELOR	NONE	A8A	3AA	04A0A	*****	E**	D1
6180	CL OT CARPENTRY SHOP	D.56	A8F	3AA	06A-A	*****	E**	W1
0047	CL PROCTO PATIENT PREP	D.07	B8A	4AE	04B0A	*****	D**	W1
0046	CL PROCTO PATIENT TOILET	D.07	E8C	3AJ	10ICEI	*****	CA*	**
0045	CL PROCTO TREATMENT RM	D.07	B9B	4AE	06B-A	11***	E**	W1
1217	CL PT CUBICLE (1)	D.52	B8C	***	04B0A	*****	D**	W1
1218	CL PT CUBICLE WORK STA	D.52	B8C	***	04B0A	*****	D**	**
0884	CL PT DRESS CUBICLES	NONE	B8C	3AJ	04B0A	*****	D**	**
6155	CL PT EXERCISE ROOM (1)	D.52	B8C	3AA	06B0A	*****	D**	W1
1219	CL PT EXERCISE/TREATMENT (1)	D.52	B8C	4AE	06B0A	*****	D**	W1
1226	CL PT HYDRO CONT BODY TANK	D.51	K8C	***	06B-AI	11***	D**	**
1222	CL PT HYDRO WHLPL LEG (1)	D.51	K8C	***	06B-AI	*****	D**	**

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
8572	CL PT HYDRO WHLPL ARM/LEG(1)	D.51	K8C	***	06B-AI	*****	D**	**
7711	CL PT HYDRO WHLPL ARM (1)	D.51	K8C	***	06B-AI	*****	D**	**
1223	CL PT HYDRO LOWBOY WHLPL (1)	D.51	K8C	***	06B-AI	*****	D**	**
1224	CL PT HYDRO TREAT CUB (1)	D.51	K8C	***	06B-AI	*****	D**	**
0068	CL PT HYDRO WHIRLPOOL (1)	D.51	K8C	***	06B-AI	*****	D**	**
1225	CL PT HYDRO WORK STATION	D.51	K8C	***	06B-AI	*****	D**	W1
1573	CL PT OIC OFFICE	G.03	A8A	3BA	04B0A	*****	E**	D1
1220	CL PT REHABILITATION EXER(1)	NONE	A8C	3AA	04B0A	11***	D**	W1
1236	CL PT SP TRT AMPUTEE TR	NONE	A8C	3AA	04B0A	11***	D**	W1
1237	CL PT SP TRT ELECTOMYOGRAPHY	D.54	B8A	3AA	06B0A	*****	D*1	W1
1238	CL PT SP TRT PED REHAB	D.57	B8C	3AA	04B0A	11***	D**	W1
0070	CL PT TOILET	D.55	E8C	3AJ	10ICEI	*****	D**	**
0644	CL SECY WAITING	G.06	A8A	3BA	04A0A	*****	E**	DV
7723	CL SPEC BIOFEEDBACK	NONE	A8A	3AA	04A0A	*****	E**	W1
7779	CL SPEC CONTACT LENS	NONE	A8A	3AA	04A0A	*****	E**	W1
0878	CL SPEC CYSTO DRESS CUBICLES	NONE	A8A	3AJ	04B0A	*****	CA*	**
0880	CL SPEC CYSTO RECOVERY RM (2 BED)	NONE	B8A	3AA	04B0A	DV*	**	
0877	CL SPEC CYSTO RM	B.05	D9B	AAE	06B0A	111*B	GV1	T1
0887	CL SPEC CYSTO WORKROOM	D.59	B8A	3BD	06A+A	*****	E**	W1
0520	CL SPEC DERM ALLERGEN INJECT	D.31	A8A	3AA	04A0A	11***	E*1	W1
0521	CL SPEC DERM SKIN TESTING RM	D.33	A8A	3AA	04A0A	*****	E*1	W1
0496	CL SPEC DERM ULTRAVIOLET BTH	D.35	A8A	3AA	04A-AI	*****	B*1	**
0542	CL SPEC ECG DRESS CUBICLES	NONE	A8A	3AJ	04A0A	*****	CA*	**
6053	CL SPEC ECG FILES	D.25	A8F	3CA	04A0A	*****	EA*	**
0058	CL SPEC ECG ROOM PHYS EXAM	D.23	A8A	3AA	04A0A	11***	E**	W1
0540	CL SPEC ECG TESTING AREA	D.23	A8A	3AA	04A0A	11***	E**	**
0546	CL SPEC ECG VECTOR TAPE STOR	D.25	A8F	3CA	04A0A	*****	AA*	**
0541	CL SPEC ECG WORK AREA	D.24	A8A	3AA	04A0A	*****	F**	W1
6046	CL SPEC ECG/TREADMILL	D.26	A8A	3AA	04A0A	111**	E**	**
0637	CL SPEC EEG TEST AREA	D.28	A8A	3AA	04A0A	11***	EV1	**
0638	CL SPEC EEG WORK AREA	D.29	A8A	3AA	04A0A	*****	E**	W1
0061	CL SPEC ENT AUDIO (1 MAN)	D.48	A8A	3BB	04A0E	*****	E**	W1
0769	CL SPEC ENT AUDIO (4 MAN)	D.47	A8A	3BB	04A0E	*****	E**	W1
7757	CL SPEC ENT AUDIO CLINICAL	D.48	A8A	3BB	04A0E	*****	E**	W1
0771	CL SPEC ENT HEAR AID FIT RM	NONE	A8A	3BB	04A0A	*****	E**	W1
0440	CL SPEC ENT LISTENING ROOM	NONE	A8A	3BB	04A0A	*****	E**	**
7799	CL SPEC EYE LASER ROOM	NONE	A8B	3AE	04A0A	111**	E**	W1
7798	CL SPEC EYE LENS FABR LAB	NONE	B8A	3AA	06A-A	*****	E**	W1
0742	CL SPEC EYE LENS FIT/DISP	NONE	A8A	3AA	04A0A	*****	E**	W1
0323	CL SPEC EYE OPHTH EDGING RM	NONE	A8A	3AA	04A0A	*****	E**	W1
0741	CL SPEC EYE OPTICAL DISP	D.41	A8A	3AA	04A0A	*****	E**	W1
0321	CL SPEC EYE OPTICAL FIT RM	D.41	A8A	3AA	04A0A	*****	E**	W1
0747	CL SPEC EYE SCREENING RM	D.40	A8A	3AA	04A0A	*****	E**	W1
7774	CL SPEC EYE TESTING	NONE	A8A	3AA	04A0A	*****	E**	W1
0503	CL SPEC EYE TYMPANOMETER	NONE	A8A	3AA	04A0A	*****	E**	W1
0567	CL SPEC INHAL THERAPY	D.30	A8A	3AA	06A-A	111*A	E**	W1
5708	CL SPEC INTERVIEW ROOM	NONE	A8A	3AA	04A0A	*****	E**	D1
1199	CL SPEC NM DECAY DISPOSAL RM	NONE	B8A	3AA	04A-AI	*****	D**	**
1189	CL SPEC NM SCANNING	D.64	A8C	AAE	04A0A	*****	BV*	W1
1180	CL SPEC NM UPTAKE ROOM	D.63	A8C	4AE	04A0A	*11**	C**	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
0796	CL SPEC OB/GYN HISTORY	D.04	A8A	3AA	04A0A	*****	E**	D1
7778	CL SPEC OPT CLERK RECEPTION	NONE	A8A	3BA	04A0A	*****	E**	S2
7770	CL SPEC OPT EYELANE/OFFICE	D.37	A8A	3AA	04A0A	*****	E**	D1
7771	CL SPEC OPT PARTS STORAGE	NONE	A8A	3AA	04A0A	*****	E**	**
7772	CL SPEC OPT REPAIR	NONE	A8A	3AA	04A0A	*****	E**	W1
7776	CL SPEC OPT TESTING	NONE	A8A	3AA	04A0A	*****	E**	W1
0701	CL SPEC ORTHO APPL FIT RM	D.18	A8B	3AA	04A0A	*****	E**	W1
0700	CL SPEC ORTHO APPL FTG ADS	NONE	A8B	3AA	04A0A	*****	D**	W1
9851	CL SPEC ORTHO CAST RM 1 TABLE	D.13	C8B	AAE	06A-A	11**A	E**	T1
9852	CL SPEC ORTHO CAST RM 2 TABLE	NONE	C8B	AAE	06A-A	11**A	E**	T1
9853	CL SPEC ORTHO CAST RM 3 TABLE	NONE	C8B	AAE	06A-A	11**A	E**	T1
9854	CL SPEC ORTHO CAST RM 4 TABLE	D.17	C8B	AAE	06A-A	11**A	E**	T1
0699	CL SPEC ORTHO PLASTER PREP	NONE	C8B	AAE	06A-A	*****	D**	W1
6105	CL SPEC PATIENT HOLDING	NONE	A8A	3AA	04A0A	*****	C**	**
0062	CL SPEC PE CLINICAL EVAL	D.50	A8A	3AA	04A0A	*****	E**	W1
0831	CL SPEC PED ISOLATION WAIT	D.22	A8A	3AA	06A-AI	*****	C**	**
0833	CL SPEC PED ISOLATION EXAM RM	D.22	A8A	3AA	06A-AI	*****	E**	D1
6060	CL SPEC PED ISOLATION TOILET	D.23	E8C	3AJ	10ICEI	*****	CA*	**
0863	CL SPEC PSYC CHILD MIRROR RM	D.67	H8A	3AA	04A0A	*****	DV*	D1
0864	CL SPEC PSYC CHILD PLAY OBS	D.67	H8A	3AA	04A0A	*****	DV*	**
7015	CL SPEC PSYC GROUP ACTIVITY	NONE	A8A	3AA	04A0A	*****	DV*	W1
7016	CL SPEC PSYC GROUP THERAPY	NONE	H8A	3AB	04A0A	*****	DV*	W1
0854	CL SPEC PSYC SOCIAL WORKER	D.04	A8A	3AA	04A0A	*****	E**	D1
0860	CL SPEC PSYC TESTING	NONE	H8A	3AA	04A0A	*****	D**	W1
9008	CL SPEC PULMONARY ROOM	NONE	A8A	4AE	04A0A	11***	E**	W1
7492	CL SPEC RAD HEALTH LAB	NONE	B8E	3AA	06A-AI	*****	E**	W1
1498	CL SPEC RAD HEALTH OFFICE	G.03	A8A	3AA	04A0A	*****	E**	W1
1608	CL SPEC RECOVERY	NONE	A8A	4AE	04A0A	111**	DV*	**
0544	CL SPEC TREADMILL	D.26	A8A	4AE	04A0A	111**	E**	W1
0719	CL SPECIMEN COLLECTION	NONE	B8A	3AJ	06A-AI	*****	F**	**
0325	CL STAFF LOUNGE/MULT RM	NONE	H8A	3BA	04A0A	*****	DV*	W1
0499	CL STORAGE	NONE	A8F	3AA	04A0A	*****	AA*	**
0386	CL STORAGE EQUIPMENT	NONE	A8F	3AA	04A0A	*****	AA*	**
0050	CL TREATMENT CUBICLE (1)	D.75	A8B	***	04A0A	*****	E**	**
6041	CL TREATMENT GI	D.05	B8B	4AE	04A0A	*****	E**	T1
0006	CL TREATMENT RM	D.05	B9B	4AE	04A0A	*****	E**	T1
0497	CL TREATMENT RM DERM PROC	D.34	B9B	4AE	04A0A	*****	E**	T1
0746	CL TREATMENT RM EYE	D.39	B9B	4AE	04A0A	*****	E**	T1
0568	CL TREATMENT RM INHAL THER	D.05	B9B	4AE	06A-AI	11***	E**	T1
1081	CL TREATMENT RM NEURO SPEC PR	D.05	B8B	4AE	06A0A	*****	E**	T1
0745	CL TREATMENT RM/MINOR OR	D.46	D9B	AAE	06A+A	11***	E**	T1
7858	CL UNIVERSAL USE ROOM	D.04	A8A	4AE	04A0A	*****	E**	D1
1342	CL UTILITY APPAR STOR	D.08	B8F	3AA	04A0A	*****	CA*	**
0011	CL UTILITY CLEAN STORAGE	D.08	A8F	3AA	04A0A	*****	CA*	**
0012	CL UTILITY SOILED	D.09	B8F	3AA	04A0A	*****	CA*	**
0007	CL WEIGHTS AND MEASURES	D.19	A8A	3AA	04A0A	*****	E**	W1
6021	CONFERENCE DEPT CONF/LOUNGE	NONE	H8A	3BA	04A0A	*****	DV*	W1
9508	CONFERENCE RM 08 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9509	CONFERENCE RM 09 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9510	CONFERENCE RM 10 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9511	CONFERENCE RM 11 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9512	CONFERENCE RM 12 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9513	CONFERENCE RM 13 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9514	CONFERENCE RM 14 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9515	CONFERENCE RM 15 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9516	CONFERENCE RM 16 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9517	CONFERENCE RM 17 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9518	CONFERENCE RM 18 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9519	CONFERENCE RM 19 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9520	CONFERENCE RM 20 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9521	CONFERENCE RM 21 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9522	CONFERENCE RM 22 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9523	CONFERENCE RM 23 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9524	CONFERENCE RM 24 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9525	CONFERENCE RM 25 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9526	CONFERENCE RM 26 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9527	CONFERENCE RM 27 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9528	CONFERENCE RM 28 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9529	CONFERENCE RM 29 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9530	CONFERENCE RM 30 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9531	CONFERENCE RM 31 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9532	CONFERENCE RM 32 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9533	CONFERENCE RM 33 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9534	CONFERENCE RM 34 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9535	CONFERENCE RM 35 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9536	CONFERENCE RM 36 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9537	CONFERENCE RM 37 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9535	CONFERENCE RM 38 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9539	CONFERENCE RM 39 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9540	CONFERENCE RM 40 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9541	CONFERENCE RM 41 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9542	CONFERENCE RM 42 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9543	CONFERENCE RM 43 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9544	CONFERENCE RM 44 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9545	CONFERENCE RM 45 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9546	CONFERENCE RM 46 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9547	CONFERENCE RM 47 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9548	CONFERENCE RM 48 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9549	CONFERENCE RM 49 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9550	CONFERENCE RM 50 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9551	CONFERENCE RM 51 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9552	CONFERENCE RM 52 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9553	CONFERENCE RM 53 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9554	CONFERENCE RM 54 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9555	CONFERENCE RM 55 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9556	CONFERENCE RM 56 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
9557	CONFERENCE RM 57 SEAT	G.05	H8A	3BA	04A0A	*****	DV*	W1
0027	DENT ADM ADMIN OFFICER	G.01	H8A	3BA	04A0A	*****	E**	D1
0115	DENT ADM CLERK	G.01	A8A	3BA	04A0A	*****	E**	D1
0119	DENT ADM CMAA	G.01	A8A	3BA	04A0A	*****	E**	D1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
0120	DENT ADM DEPT CHIEF	G.01	H8A	3BA	04A0A	*****	E**	D1
0237	DENT ADM FISCAL/SUPPLY	G.01	A8A	3BA	04A0A	*****	E**	D1
0228	DENT ADM RECORDS STORAGE	NONE	A8F	3CF	04A0A	*****	E**	**
0117	DENT ADM SDO OFFICE	G.02	A8A	3AA	04A0A	*****	E**	D1
0233	DENT ADM SDO SECY WAIT	G.06	A8A	3BA	04A0A	*****	D**	D1
0033	DENT ADM TRAINING	G.01	A8A	3BA	04A0A	*****	E**	D1
0234	DENT ADM XO OFFICER OFFICE	G.01	H8A	3BA	04A0A	*****	E**	D1
0249	DENT CONSULTATION	E.12	A8A	3BA	04A0A	*****	E**	D1
0262	DENT CONTROL	D.01	A8E	***	04A0A	*****	E**	D1
0143	DENT CSR CENTRAL STERIL	E.16	A8F	BCF	06G+A	*****	DA*	D1
0142	DENT CSR INSTRMNT SCRUB PREP	E.16	B8F	3CF	06G-A	*****	E**	W1
7853	DENT CSR STORAGE STERIL	E.16	A8F	3CF	04A0A	*****	E**	**
0276	DENT DTR ENDODONTIC	E.05	C8A	3AA	06G+A	*11*D	F*1	T1
<UT>	DENT DTR CENTRAL	E.01	C8A	***	06G+A	*11*D	F*1	T1
0107	DENT DTR ORAL SURGERY	E.06	C8A	4AE	06G+A	121*I	F*1	T1
0111	DENT DTR ORTHODONTIC	E.01	C8A	***	06G+A	*11**	F*1	T1
0112	DENT DTR PEDODONTIC	E.01	C8A	3AA	06G+A	*11**	F*1	T1
0109	DENT DTR PERIODONTIC	E.04	C8A	***	06G+A	*****	F*1	T1
0108	DENT DTR PROSTHODONTIC	E.03	C8A	***	06G+A	*****	F*1	T1
0242	DENT DTR SURGICAL SUPPORT	E.14	D8A	3BD	06G+A	121*I	F*1	T1
0269	DENT DTR SURGICAL TEACHING	E.13	C8A	4AE	06G+A	121*I	F*1	T1
0250	DENT DUTY ROOM	NONE	C8A	3AA	04A0A	*****	B**	D1
9807	DENT EQUIPMENT REPAIR	E.11	A8E	BCF	04A0A	*****	E**	W1
0282	DENT HOUSEKEEP SUPPLY	NONE	A8A	3AA	04A0A	*****	BA*	**
0127	DENT HOUSEKEEPING	NONE	A8A	3AA	04A0A	*****	BA*	W1
0123	DENT LAB CASTING/GRINDING	NONE	L8E	3CA	12A-AM	***1*	FA*	W1
0124	DENT LAB CERAMICS	NONE	L8E	3CA	12A-AL	***1*	FA*	W1
0247	DENT LAB DESIGN ROOM	NONE	L8E	3CA	12A-AL	*****	F**	W1
0243	DENT LAB PROS BULK STORAGE	NONE	L8F	3CA	12A-A	*****	AA*	W1
7846	DENT LAB PROS CASTING	NONE	L8E	3CA	12A-AL	***1A	F**	W1
7845	DENT LAB PROS CUR/PROCESSING	NONE	L8E	3CA	12A-AL	***1A	F**	W1
7843	DENT LAB PROS POLISH/PLASTER	NONE	L8E	3CA	12A-AL	***1A	F**	W1
7844	DENT LAB PROS PORCELAIN	NONE	L8E	3CA	12A-AL	***1A	F**	W1
0122	DENT LAB PROS BASIC (4 MAN)	NONE	L8E	3CA	12A-AL	***1A	F**	W1
6211	DENT LAB PROS (LIMITED 1 MAN)	NONE	L8E	3CA	12A-AL	***1A	F**	W1
0126	DENT LINEN ROOM	NONE	A8F	3AA	04A0A	*****	DA*	**
4054	DENT ORAL EVAC EQUIP ROOM	NONE	M0E	3AA	04A0A	*****	AA*	D1
0113	DENT ORAL HYGIENE TREATMENT	E.02	C8A	3AA	06G+A	*11**	E**	T1
0136	DENT PREVENTIVE DENISTRY RM	E.10	C8A	3AA	06G+A	*****	E**	T1
0130	DENT RECOVERY ROOM	E.08	A8A	4AE	04A0A	11**J	DV1	**
4049	DENT REPAIR ADMIN	E.11	A8A	3AA	04A0A	*****	E**	W1
4056	DENT REPAIR ELECTRONICS	E.11	A8E	3AA	04A0A	*****	E**	W1
4053	DENT REPAIR MACHINE TOOLS	E.11	A8E	3AA	04A0A	*****	E**	W1
4050	DENT REPAIR SHOP	E.11	A8E	3AA	04A0A	*****	E**	W1
4051	DENT REPAIR STORAGE	E.11	A8F	3AA	04A0A	*****	E**	W1
0129	DENT SCRUB ALCOVE	E.07	C8A	***	06A+AY	*****	E**	**
7716	DENT STERILIZATION ROOM	E.12	B8F	4CF	06G+A	*****	E**	W1
5732	DENT STORAGE	NONE	A8F	3AA	04A0A	*****	AA*	**
0125	DENT SUPPLY STORAGE	NONE	A8F	4CF	04A0A	*****	AA*	**
0280	DENT X RAY CEPHALOMETRIC	E.09	A8A	4AF	04A0A	*****	BM*	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
0115	DENT X RAY DARK ROOM/AUTO PRO	E.09	A8A	4AF	10A-AI	*****	BM*	W1
0266	DENT X RAY EXPOSURE W/PANO	E.09	A8A	4AF	04A0A	*****	BM*	W1
0114	DENT X RAY EXPOSURE/PANO	E.09	B8A	4AF	04A0A	*****	BM*	W1
9420	DINING ROOM 20 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9421	DINING ROOM 21 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9422	DINING ROOM 22 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9423	DINING ROOM 23 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9424	DINING ROOM 24 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9425	DINING ROOM 25 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9426	DINING ROOM 26 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9427	DINING ROOM 27 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9428	DINING ROOM 28 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9429	DINING ROOM 29 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9430	DINING ROOM 30 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9431	DINING ROOM 31 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9432	DINING ROOM 32 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9433	DINING ROOM 33 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9434	DINING ROOM 34 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9435	DINING ROOM 35 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9436	DINING ROOM 36 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9437	DINING ROOM 37 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9438	DINING ROOM 38 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9439	DINING ROOM 39 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9440	DINING ROOM 40 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9441	DINING ROOM 41 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9442	DINING ROOM 42 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9443	DINING ROOM 43 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9444	DINING ROOM 44 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9445	DINING ROOM 45 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9446	DINING ROOM 46 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9447	DINING ROOM 47 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9448	DINING ROOM 48 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9449	DINING ROOM 49 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W1
9450	DINING ROOM 50 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9451	DINING ROOM 51 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9452	DINING ROOM 52 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9453	DINING ROOM 53 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9454	DINING ROOM 54 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9455	DINING ROOM 55 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9456	DINING ROOM 56 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9457	DINING ROOM 57 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9458	DINING ROOM 58 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9459	DINING ROOM 59 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9460	DINING ROOM 60 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9461	DINING ROOM 61 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9462	DINING ROOM 62 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9463	DINING ROOM 63 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9464	DINING ROOM 64 SEAT	HONE	H9E	BCA	04A0A	*****	CV*	W2
9465	DINING ROOM 65 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9466	DINING ROOM 66 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9467	DINING ROOM 67 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9468	DINING ROOM 68 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9469	DINING ROOM 69 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9470	DINING ROOM 70 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9471	DINING ROOM 71 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9472	DINING ROOM 72 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9473	DINING ROOM 73 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9474	DINING ROOM 74 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9475	DINING ROOM 75 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9476	DINING ROOM 76 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9477	DINING ROOM 77 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9478	DINING ROOM 78 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9479	DINING ROOM 79 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9480	DINING ROOM 80 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9481	DINING ROOM 81 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9482	DINING ROOM 82 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9483	DINING ROOM 83 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9484	DINING ROOM 84 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9485	DINING ROOM 85 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9486	DINING ROOM 86 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9487	DINING ROOM 87 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9488	DINING ROOM 88 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9489	DINING ROOM 89 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9490	DINING ROOM 90 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9491	DINING ROOM 91 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9492	DINING ROOM 92 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9493	DINING ROOM 93 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9494	DINING ROOM 94 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9495	DINING ROOM 95 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9496	DINING ROOM 96 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9497	DINING ROOM 97 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9498	DINING ROOM 98 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
9499	DINING ROOM 99 SEAT	NONE	H9E	BCA	04A0A	*****	CV*	W2
0091	DUTY BEDROOM COW	NONE	H8A	3AA	04A0A	*****	B**	D1
0088	DUTY BEDROOM MOOD	NONE	H8A	3AA	04A0A	*****	B**	D1
9401	DUTY CORPSMEN DUTY RM 1 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9402	DUTY CORPSMEN DUTY RM 2 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9403	DUTY CORPSMEN DUTY RM 3 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9404	DUTY CORPSMEN DUTY RM 4 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9405	DUTY CORPSMEN DUTY RM 5 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9406	DUTY CORPSMEN DUTY RM 6 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9407	DUTY CORPSMEN DUTY RM 7 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9408	DUTY CORPSMEN DUTY RM 8 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
9409	DUTY CORPSMEN DUTY RM 9 PER	NONE	A8A	3AA	04A0A	*****	B**	D1
6147	DUTY RM TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1517	DUTY STUDENT BDRM	NONE	A8A	3AA	04A0A	*****	B**	D1
6210	DUTY WATCH TOILETS	NONE	H8C	3AJ	10ICEI	*****	CA*	**
1362	GEN ANTEROOM	A.03	B8J	4AI	12B+B	*****	B**	**
1612	GEN CLEANING EQUIP	NONE	B8E	3AA	10ICEI	*****	AA*	**
1723	GEN CLEANING GEAR	E.08	B8E	3AA	10ICEI	*****	AA*	**

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
8000	GEN CLINICAL RECEPTION	NONE	A8E	***	04A0A	*****	D**	CV
7700	GEN COMMUNICATION CENTER	F.03	A8E	BBA	06A0A	*****	EV*	CV
7783	GEN COPY MACHINE/COLLATING	NONE	A8E	BCA	06A0A	*****	E**	**
7701	GEN DRESSING BOOTH	NONE	A8A	3AJ	04A0A	*****	CA*	**
1714	GEN EQUIP CLEANUP	NONE	A8E	3AA	10ICEI	*****	DA*	**
0565	GEN EQUIP PREP	NONE	A8E	3AA	04A0A	*****	DA*	**
6138	GEN EQUIP STORAGE	NONE	A8F	BAA	04A0A	*****	AA*	**
1351	GEN EQUIP SUPPLY STOR	NONE	A8F	BAA	04A0A	*****	AA*	**
6192	GEN GARAGE	NONE	EXT	***	-----	*****	A**	**
0425	GEN INFO /MAA	G.49	A8A	***	04A0A	*****	D**	CV
1676	GEN INFO CONTROL	NONE	A8E	***	04A0A	*****	C**	CV
0015	GEN JANITOR CLOSET	F.08	C8A	3AA	10ICEI	*****	AA*	**
0026	GEN LOBBY	NONE	L8E	***	04A0A	*****	C**	**
0001	GEN MISCELLANEOUS EQUIPMENT	****	***	***	*****	*****	***	**
0144	GEN STERILIZER EQUIPMENT	D.12	B8F	3AA	10IBE	*****	DA*	**
1337	GEN STRETCHER STORAGE	NONE	A8F	3AA	04A0A	*****	E**	**
6031	GEN TV LOUNGE	NONE	H8A	3BA	04A0A	*****	CA*	W1
1434	KIT ADM CHIEF OF SERVICE	NONE	A8A	3AA	04J0A	*****	E**	S1
1437	KIT ADM DIETICIAN AIDS	NONE	A8A	3AA	0430A	*****	E**	D1
6170	KIT ADM INSPEC SEC (3 MAN)	NONE	A8A	3AA	04J0A	*****	E**	DW
1416	KIT CAFE SERVING LINE	NONE	K8C	BCA	06A0AI	*****	E**	W1
1422	KIT CAN WASH	NONE	M0C	BCD	-----	*****	D**	W1
1421	KIT CART WASH	NONE	K8C	BCD	-----	*****	D**	W1
1429	KIT DRY STORAGE	NONE	B8F	3CF	06J0A	*****	AA*	**
1418	KIT FOOD CART STORAGE	NONE	K8F	BCD	06J-AI	*****	AA*	**
1440	KIT FS EMPL LOCKERS FEM	NONE	B8C	3AJ	06J-AI	*****	CA*	**
1438	KIT FS EMPL LOCKERS MALES	NONE	B8C	3AJ	06J-AI	*****	CA*	**
1441	KIT FS EMPL TLT SHR FEM	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1439	KIT FS EMPL TLT SHR MALE	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1427	KIT INGREDIENT ROOM	NONE	K8C	3CF	04J0AI	*****	F**	W1
1424	KIT JANITOR CLOSET	NONE	C8C	3AA	10ICEI	*****	AA*	**
1393	KIT KITCHEN	NONE	K8C	BCD	10J+AI	*****	F**	W1
1426	KIT PROCESS PREP	NONE	K8C	BCD	10J+AI	*****	F**	W1
1428	KIT RECIEVING	NONE	K8I	BCD	06J-AI	*****	C**	W1
1432	KIT REFRIG EQUIP ROOM	NONE	A8E	3AA	10ICEI	*****	A**	**
1431	KIT REFRIG FROZEN STOR	NONE	PRE	***	-----	*****	BA*	**
1419	KIT SANI DISHWASH COLLTN	NONE	K9F	BCD	10J-AI	*****	D**	W1
1430	KIT STORAGE NON FOOD	NONE	A8F	3CF	06J-A	*****	F**	**
1417	KIT TRAY MAKEUP	NONE	K8C	BCD	10J+AI	*****	F**	W1
5707	LOCKER CONTAM LKR FEM	NONE	D8C	3AJ	10ICEI	*****	CA*	W1
7741	LOCKER CONTAM LKR FEM(10)	NONE	D8C	3AJ	10ICEI	*****	CA*	W1
5706	LOCKER CONTAM LKR MALE	NONE	D8C	3AJ	10ICEI	*****	CA*	W1
9606	LOCKER RM 06 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9607	LOCKER RM 07 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9608	LOCKER RM 08 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9609	LOCKER RM 09 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9610	LOCKER RM 10 LKRS	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9611	LOCKER RM 11 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9612	LOCKER RM 12 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9613	LOCKER RM 13 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9614	LOCKER RM 14 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9615	LOCKER RM 15 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9616	LOCKER RM 16 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9617	LOCKER RM 17 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9618	LOCKER RM 18 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9619	LOCKER RM 19 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9620	LOCKER RM 20 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9621	LOCKER RM 21 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9622	LOCKER RM 22 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9623	LOCKER RM 23 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9624	LOCKER RM 24 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9625	LOCKER RM 25 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9626	LOCKER RM 26 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9627	LOCKER RM 27 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9628	LOCKER RM 28 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9629	LOCKER RM 29 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9630	LOCKER RM 30 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9631	LOCKER RM 31 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9632	LOCKER RM 32 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9633	LOCKER RM 33 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9634	LOCKER RM 34 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9635	LOCKER RM 35 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9636	LOCKER RM 36 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9637	LOCKER RM 37 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9638	LOCKER RM 38 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9639	LOCKER RM 39 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9640	LOCKER RM 40 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9641	LOCKER RM 41 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9642	LOCKER RM 42 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9643	LOCKER RM 43 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9644	LOCKER RM 44 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9645	LOCKER RM 45 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9646	LOCKER RM 46 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9647	LOCKER RM 47 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9648	LOCKER RM 48 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9649	LOCKER RM 49 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9650	LOCKER RM 50 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9651	LOCKER RM 51 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9652	LOCKER RM 52 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9653	LOCKER RM 53 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9654	LOCKER RM 54 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9655	LOCKER RM 55 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9656	LOCKER RM 56 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9657	LOCKER RM 57 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9658	LOCKER RM 58 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9659	LOCKER RM 59 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9660	LOCKER RM 60 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9661	LOCKER RM 61 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9662	LOCKER RM 62 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9663	LOCKER RM 63 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9664	LOCKER RM 64 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9665	LOCKER RM 65 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9666	LOCKER RM 66 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9667	LOCKER RM 67 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9668	LOCKER RM 68 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9669	LOCKER RM 69 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9670	LOCKER RM 70 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9671	LOCKER RM 71 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9672	LOCKER RM 72 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9673	LOCKER RM 73 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9674	LOCKER RM 74 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9675	LOCKER RM 75 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9676	LOCKER RM 76 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9677	LOCKER RM 77 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9678	LOCKER RM 78 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9679	LOCKER RM 79 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9680	LOCKER RM 80 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9681	LOCKER RM 81 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9682	LOCKER RM 82 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9683	LOCKER RM 83 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9684	LOCKER RM 84 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9685	LOCKER RM 85 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9686	LOCKER RM 86 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9687	LOCKER RM 87 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9688	LOCKER RM 88 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9689	LOCKER RM 89 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9690	LOCKER RM 90 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9691	LOCKER RM 91 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9692	LOCKER RM 92 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9693	LOCKER RM 93 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9694	LOCKER RM 94 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9695	LOCKER RM 95 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9696	LOCKER RM 96 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9697	LOCKER RM 97 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9698	LOCKER RM 98 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9699	LOCKER RM 99 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9706	LOCKER RM FEM 06 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9707	LOCKER RM FEM 07 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9708	LOCKER RM FEM 08 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9709	LOCKER RM FEM 09 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9710	LOCKER RM FEM 10 LKRS	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9711	LOCKER RM FEM 11 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9712	LOCKER RM FEM 12 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9713	LOCKER RM FEM 13 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9714	LOCKER RM FEM 14 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9715	LOCKER RM FEM 15 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9716	LOCKER RM FEM 16 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9717	LOCKER RM FEM 17 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9718	LOCKER RM FEM 18 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9719	LOCKER RM FEM 19 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9720	LOCKER RM FEM 20 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9721	LOCKER RM FEM 21 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9722	LOCKER RM FEM 22 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9723	LOCKER RM FEM 23 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9724	LOCKER RM FEM 24 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9725	LOCKER RM FEM 25 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9726	LOCKER RM FEM 26 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9727	LOCKER RM FEM 27 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9728	LOCKER RM FEM 28 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9729	LOCKER RM FEM 29 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9730	LOCKER RM FEM 30 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9731	LOCKER RM FEM 31 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9732	LOCKER RM FEM 32 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9733	LOCKER RM FEM 33 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9734	LOCKER RM FEM 34 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9735	LOCKER RM FEM 35 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9736	LOCKER RM FEM 36 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9737	LOCKER RM FEM 37 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9738	LOCKER RM FEM 38 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9739	LOCKER RM FEM 39 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9740	LOCKER RM FEM 40 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9741	LOCKER RM FEM 41 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9742	LOCKER RM FEM 42 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9743	LOCKER RM FEM 43 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9744	LOCKER RM FEM 44 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9745	LOCKER RM FEM 45 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9746	LOCKER RM FEM 46 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9747	LOCKER RM FEM 47 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9748	LOCKER RM FEM 48 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9749	LOCKER RM FEM 49 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9750	LOCKER RM FEM 50 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9751	LOCKER RM FEM 51 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9752	LOCKER RM FEM 52 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9753	LOCKER RM FEM 53 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9754	LOCKER RM FEM 54 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9755	LOCKER RM FEM 55 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9756	LOCKER RM FEM 56 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9757	LOCKER RM FEM 57 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9758	LOCKER RM FEM 58 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9759	LOCKER RM FEM 59 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9760	LOCKER RM FEM 60 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9761	LOCKER RM FEM 61 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9762	LOCKER RM FEM 62 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9763	LOCKER RM FEM 63 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9764	LOCKER RM FEM 64 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9765	LOCKER RM FEM 65 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9766	LOCKER RM FEM 66 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9767	LOCKER RM FEM 67 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9768	LOCKER RM FEM 68 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9769	LOCKER RM FEM 69 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9770	LOCKER RM FEM 70 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9771	LOCKER RM FEM 71 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9772	LOCKER RM FEM 72 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9773	LOCKER RM FEM 73 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9774	LOCKER RM FEM 74 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9775	LOCKER RM FEM 75 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9776	LOCKER RM FEM 76 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9777	LOCKER RM FEM 77 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9778	LOCKER RM FEM 78 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9779	LOCKER RM FEM 79 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9780	LOCKER RM FEM 80 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9781	LOCKER RM FEM 81 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9782	LOCKER RM FEM 82 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9783	LOCKER RM FEM 83 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9784	LOCKER RM FEM 84 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9785	LOCKER RM FEM 85 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9786	LOCKER RM FEM 86 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9787	LOCKER RM FEM 87 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9788	LOCKER RM FEM 88 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9789	LOCKER RM FEM 89 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9790	LOCKER RM FEM 90 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9791	LOCKER RM FEM 91 LKR	NONE	ABC	3AJ	04A-A	*****	CA*	W1
9792	LOCKER RM FEM 92 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9793	LOCKER RM FEM 93 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9794	LOCKER RM FEM 94 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9795	LOCKER RM FEM 95 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9796	LOCKER RM FEM 96 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9797	LOCKER RM FEM 97 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9798	LOCKER RM FEM 98 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
9799	LOCKER RM FEM 99 LKR	NONE	A8C	3AJ	04A-A	*****	CA*	W1
1532	LOCKER RM TOIL/SHOW F 3 FIX	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1528	LOCKER RM TOIL/SHOW F 4 FIX	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1530	LOCKER RM TOIL/SHOW M 3 FIX	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1526	LOCKER RM TOIL/SHOW M 6 FIX	NONE	E8C	3AJ	10ICEI	*****	CA*	**
4082	MECH LARGE MECHANICAL MODULE	NONE	B8E	3AA	10ICEI	*****	AA*	**
4081	MECH SMALL MECHANICAL MODULE	NONE	B8E	3AA	10ICEI	*****	AA*	**
1735	NU ARU ADMISSION/INTERVIEW	G.01	A8A	***	04B0B	*****	E**	DW
6151	NU ARU COUNSELORS	G.01	A8A	3AA	04B0B	*****	E**	DW
1565	NU ARU GROUP ACTIVITY	NONE	A8A	3BA	04B0B	*****	D**	W1
4080	NU ARU LAUNDRY	NONE	F8F	3AF	06B-B	*****	E**	**
7812	NU BR 1 BEDROOM	A.02	J8J	4AI	04B0B	111**	B**	W1
1666	NU BR 1 BEDROOM ISOLATION	A.03	F8J	4AI	06B+B	111**	B**	W1
1546	NU BR 1 BEDROOM MOBILIZATION	A.21	J8J	4AI	04B0B	111**	B**	W1
1547	NU BR 1 BEDROOM PEDIATRIC	A.02	J8J	4AI	04B0B	111**	B**	W1
6227	NU BR 1 BEDROOM PSYCH	A.16	G9J	4AI	04B0B	*****	BK*	**
7813	NU BR 2 BEDROOM	A.04	J8J	4AI	04B0B	221*A	B**	W1
6225	NU BR 2 BEDROOM MOBILIZATION	A.22	J8J	4AI	04B0B	221*A	B**	W1
7818	NU BR 2 BEDROOM ARU	A.22	J8J	4AI	04B0B	*****	B**	W1
1646	NU BR 2 BEDROOM PEDIATRIC	A.14	J8J	4AI	04B0B	221*A	B**	W1
7814	NU BR 4 BEDROOM	A.05	J8J	4AI	04B0B	442*A	B**	W1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
7819	NU BR 4 BEDROOM ARU	A.23	J8J	4AI	04B0B	*****	B**	W1
1631	NU BR 4 BEDROOM MOBILIZATION	A.23	J8J	4AI	04B0B	442*A	B**	W1
1648	NU BR 4 BEDROOM PEDIATRIC	NONE	J8J	4AI	04B0B	442*A	B**	W1
0310	NU BR 5 BEDROOM	NONE	J8J	4AI	04B0B	552*A	B**	W1
1549	NU BR TOILET/SHOWER	A.02	E8C	3AC	10ICEI	*****	C**	**
1185	NU CLEAN LINEN	A.10	F8F	3AA	04B0B	*****	DA*	**
7005	NU CLEAN SUPPLY	A.10	F8F	3AA	04B0B	*****	DA*	**
8006	NU CORPSMEN STATION	NONE	A8A	***	04B0B	*****	D**	**
1669	NU DAY ROOM	A.15	A8A	3AA	04B0B	*****	C**	D1
1310	NU EQUIPMENT STORAGE	NONE	F8F	3AA	04B0B	*****	AA*	**
1626	NU ICU BEDROOM	A.19	J8J	4CI	04B0B	241*A	B**	W1
7704	NU ICU EQUIP STORAGE	NONE	F8F	3AA	04B0B	*****	BA*	**
7712	NU ICU/CCU NURSE STA MONITOR	A.01	F8E	***	04B0B	*****	D**	D2
1557	NU LITTER WHEELCHAIR ALCOVE	NONE	F8A	***	04B0B	*****	C**	**
6189	NU LUNCH ROOM	NONE	A8A	3BA	04B0B	*****	C**	**
1637	NU NURSE CONF REPORT	G.01	A8A	3BA	04B0B	*****	E**	W1
1490	NU NURSE OFFICE	G.01	F8A	3AA	04B0B	*****	E**	D1
1568	NU NURSE SERVICE SUPV OFFICE	G.01	F8A	3AA	04B0B	*****	E**	D1
6231	NU NURSE STA CONF REPORT	NONE	A8A	3BA	04B0B	*****	D**	W1
1621	NU NURSE STA CRASH CART AL	NONE	F8E	***	04B0B	*****	C**	**
1562	NU NURSE STA MEDI PREP	A.07	F8E	3BA	04B0B	*****	E**	**
1560	NU NURSE STA MONITOR	A.01	F8E	***	04B0B	*****	D**	D2
7006	NU NURSE STA NOURISHMENT	A.06	F8E	3BA	10B-B	*****	EA*	**
7009	NU NURSE STA WORK AREA	A.01	F8E	3CA	04B0B	*****	D**	**
1651	NU PLAYROOM	A.15	F8A	3CA	04B0B	*****	D**	**
1540	NU PLAYTHINGS STORAGE	NONE	F8A	3AA	04B0B	*****	AA*	**
6229	NU SOILED UTILITY	A.11	F8F	3AA	06B-B	*****	CA*	**
1233	NU STAFF LKRS	NONE	F8C	3AJ	10ICEI	*****	CA*	**
1577	NU STAFF LOUNGE	NONE	H8A	3AA	04B0B	*****	BA*	D1
1553	NU TRASH COLLECTION	NONE	F8F	4AA	10ICEI	*****	B**	**
7007	NU TREATMENT ROOM	A.08	F8B	4AE	06B0B	11***	E**	T1
1550	NU TUBROOM	A.12	E8C	3AJ	06B-B	*****	CA*	**
7709	NU TUBROOM PEDS	NONE	E8C	3AJ	06B-B	*****	CA*	**
1554	NU UTILITY CLEAN	A.10	F8F	3AA	04B0B	*****	CA*	**
1552	NU UTILITY SOILED	A.11	F8F	3AA	06B-B	*****	CA*	**
1653	NU VISITORS LOUNGE	NONE	H8A	3BA	04B0B	*****	BA*	W1
0316	NU WARD ISSUE/STORAGE	NONE	F8F	3AA	04B0B	*****	DA*	W1
1551	NU WHEELCHAIR SHOWER	A.13	E8C	3AA	06B-BI	*****	BA*	**
6136	NURSY ANTE RM/SCRUB	A.03	B8J	3AI	12F+C	*****	D**	**
1364	NURSY BASS FULL TERM (1 BASS)	B.18	B8J	3CI	12FACG	111*E	EV1	**
1365	NURSY BASSINET ICU (1 BASS)	B.19	B8J	3CI	12FACG	221*A	FV1	**
1366	NURSY BASSINET OBSER (1 BASS)	B.18	B8J	3CI	12FACG	111*A	FV1	**
1363	NURSY BASSINET WORK AREA	B.18	B8J	3AI	12FACG	111**	FV1	**
7851	NURSY EQUIP STORAGE	NONE	B8F	3AA	06F0C	*****	B**	**
1370	NURSY FORMULA STORAGE	NONE	B8E	3AA	06F0C	*****	B**	**
1371	NURSY LINEN STORAGE	NONE	B8F	3AA	06F+C	*****	BA*	**
1374	NURSY MOTHERS ROOM	NONE	B8E	3AA	06FACG	*****	CV*	**
1360	NURSY NURSE STATION	NONE	B8E	***	06F0C	*****	E**	S2
1369	NURSY PROCEDURE ROOM	B.20	B8B	3AI	12FACG	111**	EV1	**
1373	NURSY UTILITY ROOM	NONE	B8F	3AA	06F-B	*****	CA*	**

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
6132	OB BIRTHING RM	B.15	D9B	4AI	15E+CG	221*F	GV1	W1
6254	OB BIRTHING RM TOILET	B.15	E8C	3AJ	10ICEI	*****	CA*	**
7703	OB CLEANUP/SOILED LINEN	NONE	D8F	3AA	10C-CI	*****	CA*	**
1343	OB DELIVERY ROOM	B.16	D9B	BBE	15E+CG	332*G	GV1	T1
6135	OB FATHER WAIT	NONE	H8A	3BA	06C0C	*****	CA*	W1
1340	OB LABOR ROOM (1 BED)	B.15	C8J	4AI	06C0C	11**A	DV*	W1
1341	OB LABOR ROOM TOILET	B.15	E8C	3AJ	10ICEI	*****	C**	**
1333	OB NURSE STATION	B.13	D8E	***	06C0C	*****	E**	S2
1338	OB PATIENT PREP EXAM ROOM	B.14	C8A	4AE	06C0C	11**A	E**	**
1347	OB RECOVERY ROOM	B.17	B8J	4AE	06C+C	11**A	DV1	W1
1344	OB SCRUBUP	B.02	D8B	3AA	06C+CP	*****	E**	**
7702	OB STERILE STORE WORK AREA	NONE	D8B	4AA	06C+C	*****	D**	**
4077	OB SUBSTERIL	B.02	D8F	3AA	06C0C	*****	DA*	**
1734	OR ADM OR SUPERVISOR	NONE	D8A	3AA	06C0C	*****	E**	S1
1297	OR ANESTH CHIEF OFFICE	B.07	H8A	3AA	06C0C	*****	E**	S1
1298	OR ANESTH CHIEF SECY WAIT	B.07	H8A	3AA	06C0C	*****	D**	M1
1295	OR ANESTH EQUIP WRKRM	NONE	D8E	3AA	06C-CI	111*B	E**	**
1294	OR ANESTH GAS STORAGE	NONE	D8F	3AA	06C-CI	*****	B**	**
1300	OR ANESTH LAB	NONE	D8E	3AA	06C-CI	111*B	E**	W1
1296	OR ANESTH OFFICE (1)	B.07	B8A	3AA	06C0C	*****	E**	D1
1352	OR ANESTH STORAGE	NONE	D8F	3AA	06C-CI	*****	B**	**
1748	OR ANESTH TREATMENT BLOCK	NONE	D8F	3AA	06C-C	*****	E**	**
0182	OR ANESTH WORK ROOM	B.08	D8F	3AA	06C-CI	111*B	E**	**
1299	OR ANESTHETIST OFFICE (1)	NONE	B8A	3AA	06C0C	*****	E**	D1
1718	OR CLEAN LINEN STORAGE	NONE	D8F	3AA	06C+CQ	*****	CA*	**
1349	OR CLEAN WORK AREA/STER STOR	B.06	D8F	3AA	06C+CQ	*****	EA*	**
1350	OR CLEANUP /SOILED LIN COLL	NONE	D8F	3AA	10C-CI	*****	DA*	**
0225	OR CONTAM CLOTHING	NONE	D8F	3AA	10C-CI	*****	CA*	**
1611	OR CONTAM WASTE COLLECT	NONE	D8F	3AA	10C-CI	*****	CA*	**
7804	OR DARKROOM (CYSTO)	C.04	B8E	3AA	10G-AK	*****	C**	**
1266	OR DAY SURG CHNG RM TOILET	NONE	E8C	3AJ	10ICEI	*****	CA*	**
6208	OR DAY SURG NOURISH	NONE	B8E	3AA	06C-C	*****	EA*	**
1268	OR DAY SURG PREPARATION	NONE	D8E	4AF	06C+C	*****	E**	**
6207	OR DAY SURG RECOVERY	NONE	B8J	BBF	06C+CS	*****	DV1	**
6123	OR DAY SURG WAITING	NONE	H8A	3AA	06C0C	*****	C**	**
1713	OR DECONTAM CLEANUP	B.10	D8E	3AA	10I-CI	*****	DA*	**
1309	OR DICTATION BOOTHS	NONE	A8A	3AA	06C0C	*****	E**	DW
1269	OR DOCTORS LOUNGE	NONE	H8A	3AA	06C0C	*****	BA*	D1
1763	OR DOCTORS SHOWERS	NONE	E8C	3AJ	10ICEI	*****	BA*	**
1764	OR DOCTORS TOILETS	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1717	OR EQUIP STORAGE	NONE	D8F	3AA	06C0C	*****	AA*	**
1258	OR FAMILY WAITING	NONE	H8A	3AA	06C0C	*****	C**	W1
1259	OR INSTRUCTOR OFFICE	NONE	A8A	3AA	06C0C	*****	E**	D1
6051	OR LAB BLOOD GAS	NONE	B8E	3AA	06C0C	*****	E**	D1
1275	OR LOCKER CORPSMEN LOUNGE	NONE	H8A	3AA	06C0C	*****	CA*	D1
1771	OR LOCKER CORPSMEN SHOWERS	NONE	E8C	3AJ	10ICEI	*****	BA*	**
1276	OR LOCKERS MALE	NONE	A8C	3AJ	10ICEI	*****	CA*	**
1765	OR LOUNGE DOCTOR	NONE	H8A	3BA	06C0C	*****	BA*	D1
1769	OR LOUNGE FEMALE	NONE	H8A	3BA	06C0C	*****	BA*	D1
1773	OR LOUNGE MALE	NONE	H8A	3BA	06C0C	*****	BA*	D1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
1752	OR NURSE STATION	B.01	D8E	***	06C0C	*****	E**	S2
7796	OR OPER ROOM CYSTOSCOPY	B.03	D9B	ABE	15E+CG	4B2*H	HV1	T1
1726	OR OPER ROOM EYE/ENT	B.03	D9B	ABE	15E+CG	482*H	HV1	T1
1278	OR OPER ROOM GEN SURG	B.03	D9B	ABE	15E+CG	482*H	HV1	T1
1702	OR OPER ROOM ORTHOPEDIC	B.04	D9B	ABE	15E+DG	482*H	HV1	T1
0764	OR OPER ROOM OTOLOGICAL	B.03	D9B	ABE	15E+CG	482*H	HV1	T1
1279	OR OPER ROOM SPEC PROC	NONE	D9B	ABE	15E+CG	482*H	HV1	T1
6118	OR ORTHO APPL STO	NONE	D8F	3AA	06C0C	*****	AA*	**
1282	OR ORTHO EQUIP STOR	NONE	D8F	3AA	06C0C	*****	AA*	**
1283	OR ORTHO OR DKRM AUTO	NONE	D8E	3AA	10C-CI	*****	C**	W1
1720	OR ORTHO PLASTER CART STOR	NONE	C8F	3AA	06C0C	*****	AA*	**
6048	OR PATIENT HOLD MODULE	NONE	D8A	***	06C0C	11**A	DV1	**
7710	OR RECOVERY CLEAN SUPPLY	B.11	B8F	3AA	06C+C	*****	CA*	**
1545	OR RECOVERY ISOLATION RM	NONE	B8J	4AI	06C+CS	11**A	DV1	**
1556	OR RECOVERY NOURISHMENT	NONE	B8E	3AA	06C-C	*****	E**	**
1311	OR RECOVERY NURSE STATION	B.11	B8E	***	06C+C	*****	E**	S2
1307	OR RECOVERY ROOM MOD (1 BED)	B.11	B8J	***	06C+CS	11**A	DV1	**
1308	OR RECOVERY UTILITY WORK	B.11	B8E	3AA	06C-C	*****	DA*	**
1084	OR SCRUB AREA	B.02	D8B	3BA	06C+CP	*****	GV1	**
1767	OR SHOWERS FEMALE	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1719	OR SOILED LINEN	NONE	D8F	3AA	10C-CI	*****	CA*	**
1715	OR STORAGE	NONE	D8F	3AA	06C0C	*****	DA*	**
1290	OR SUBSTERILE ROOM	B.02	D8F	3CD	06C+CP	*****	E**	**
1768	OR TOILET FEMALE	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1772	OR TOILETS MALE	NONE	E8C	3AJ	10ICEI	*****	CA*	**
1287	OR WORK AREA CARDIAC OR	NONE	D8B	3CD	06C+CQ	*****	EA*	**
9301	PUBLIC TOILET FEM 01 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9302	PUBLIC TOILET FEM 02 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9303	PUBLIC TOILET FEM 03 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9304	PUBLIC TOILET FEM 04 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9305	PUBLIC TOILET FEM 05 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9306	PUBLIC TOILET FEM 06 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9307	PUBLIC TOILET FEM 07 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9308	PUBLIC TOILET FEM 08 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9309	PUBLIC TOILET FEM 09 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9310	PUBLIC TOILET FEM 10 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9321	PUBLIC TOILET MALE 01 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9322	PUBLIC TOILET MALE 02 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9323	PUBLIC TOILET MALE 03 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9324	PUBLIC TOILET MALE 04 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9325	PUBLIC TOILET MALE 05 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9326	PUBLIC TOILET MALE 06 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9327	PUBLIC TOILET MALE 07 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9328	PUBLIC TOILET MALE 08 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9329	PUBLIC TOILET MALE 09 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
9330	PUBLIC TOILET MALE 10 WC	NONE	E8C	3AJ	10ICEI	*****	CA*	**
7746	RAD CAS DRESSING	H.01	B9A	3AA	06A0A	*****	E**	**
7745	RAD CAS SHOWER ROOM	H.02	B9C	***	10ICEI	*****	E**	**
7744	RAD CAS TREATMENT ROOM	H.02	B9B	4AE	06A0A	*****	E**	T1
6022	SPT BAG ROOM	NONE	A8F	3AA	04A0A	*****	AA*	**

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
1444	SPT CRS RECEIVE CART WASH	NONE	B8F	BCD	10A-BU	*****	C**	W1
1457	SPT CSR DISPENING CTR	NONE	B8F	BCD	06A+B	*****	D**	W1
1455	SPT CSR EQUIP STORAGE	NONE	B8F	BCD	10A+B	*****	AA*	**
1447	SPT CSR PREP STERIL WORK	NONE	B8F	BCD	06A+BU	*****	E**	W1
1450	SPT CSR PREP STERILIZER CTR	NONE	B8F	BCD	06A+BU	*****	D**	W1
1442	SPT CSR RECEIVE STATION	NONE	B8F	BCD	04A-B	*****	D**	W1
5733	SPT CSR RECESSED STERILIZERS	NONE	B8F	3AA	10A-BI	*****	D**	**
1443	SPT CSR RECIEVE CLEANUP	NONE	B8F	BCD	10A-BU	*****	E**	W1
6052	SPT CSR RESP EQUIP WASHROOM	NONE	B8F	3AA	10A-BU	*****	D**	W1
1454	SPT CSR STORAGE STERILE	NONE	B8F	3AA	06A+B	*****	D**	W1
1459	SPT CSR SUPERVISOR	NONE	B8A	3AA	04A0B	*****	E**	D1
9046	SPT HOUSEKEEPING	NONE	B8E	3AA	04A0A	*****	E**	W1
1485	SPT HSKP CHARGING ROOM	NONE	B8H	3AA	10H-EZ	*****	BA*	**
1484	SPT HSKP EQUIP STORAGE	NONE	B8F	3AA	04A0A	*****	AA*	**
7001	SPT LAUNDRY ALCOVE	NONE	J8E	3AA	10A-AI	*****	D**	**
6249	SPT LAUNDRY ROOM	NONE	J8E	BCD	10A-AI	*****	D**	W1
1403	SPT LAUNDRY/DRY CLEAN PICKUP	NONE	J8E	3AA	10A-A	*****	D**	D1
0436	SPT LIB CHARGING DESK	NONE	H8A	3AA	04A0A	*****	D**	D1
0434	SPT LIB LIBRARIAN OFFICE	NONE	H8A	3AA	04A0A	*****	E**	D1
0435	SPT LIB READING RM SEATING	NONE	H8A	3AA	04A0A	*****	E**	**
0438	SPT LIB STACK AREA	NONE	H8G	3AA	04A0A	*****	D**	**
7728	SPT LIB STUDY ROOM	NONE	H8A	3AA	04A0A	*****	E**	**
0437	SPT LIB WORKROOM	NONE	A8A	3AA	04A0A	*****	E**	**
1425	SPT LINEN CLEAN STORAGE	NONE	B8F	3AA	04A+AV	*****	BA*	**
7807	SPT LINEN CONTROL/ISSUE	NONE	B8A	3AA	04A+A	*****	D**	W1
7715	SPT LINEN SOILED COLLECTION	NONE	B8F	3AA	04A-A	*****	E**	**
6119	SPT LINEN STOR	NONE	B8F	3AA	04A+AV	*****	DA*	**
6059	SPT LOUNGE	NONE	A8A	3BA	04A0A	*****	E**	D1
0534	SPT LOUNGE F EMP	NONE	H8A	3BA	04A0A	*****	BA*	W1
1533	SPT LOUNGE M EMP	NONE	H8A	3BA	04A0A	*****	BA*	W1
7805	SPT LOUNGE STAFF	NONE	H8A	3BA	04A0A	*****	BA*	W1
1039	SPT MED PHOTO BL/WH DKRM	NONE	B8A	3AA	10G-AI	*****	D**	W1
1036	SPT MED PHOTO OFFICE	NONE	A8A	3AA	04G0A	*****	E**	D1
6204	SPT MED PHOTO PROC B & W/COLOR	NONE	B8A	3AA	10G-AI	*****	D**	W1
6203	SPT MED PHOTO PROCESS LAB	NONE	B8A	3AA	10G-AI	*****	D**	W1
1038	SPT MED PHOTO STUDIO/OFF	NONE	A8A	3AA	04A0A	*****	E**	D1
6178	SPT PW MAINTENANCE	NONE	A8E	3AA	04A0A	*****	D**	D1
6187	SPT PW PLAN FILES	NONE	A8H	3AA	04A0A	*****	E**	**
0374	SPT PW PLAN PROJ ASSISTANT	NONE	A8A	3AA	04A0A	*****	E**	DW
0375	SPT PW PLAN PROJ STAFF	NONE	A8A	3AA	04A0A	*****	E**	WW
6197	SPT PW PLANT PROP OFFICE	NONE	A8A	3AA	04A0A	*****	E**	DW
6184	SPT PW SHOP ELECTRIC	NONE	A8E	***	04A0A	*****	D**	W1
6182	SPT PW SHOP GROUNDS	NONE	M0E	***	04A0A	*****	CA*	W1
6245	SPT PW SHOP HVAC	NONE	M0E	***	04A0A	*****	D**	W1
6179	SPT PW SHOP PAINT	NONE	M0E	***	10A-AI	*****	D**	W1
6181	SPT PW SHOP PLUMBING	NONE	M0E	***	04A0A	*****	D**	W1
6244	SPT PW SHOP SUPERVISOR	NONE	A8E	***	04A0A	*****	E**	W1
0389	SPT PW STAFF CEC OFFICE	G.01	A8A	***	04A0A	*****	E**	D1
7717	SPT PW STAFF CEC SUPPORT	G.01	A8A	***	04A0A	*****	E**	DW
7718	SPT PW STOCK ROOM	NONE	A8F	***	04A0A	*****	E**	**

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
6311	SPT PW TRANSPORTATION DISP	G.01	A8A	3AA	04A0A	*****	E**	D1
1380	SPT RED CROSS ADMIN	G.01	A8A	3AA	04A0A	*****	E**	DW
1378	SPT RED CROSS FIELD DIRECTOR	G.01	A8A	3AA	04A0A	*****	E**	D1
1387	SPT RED CROSS MUSIC RM	NONE	A8A	3AA	04A0A	*****	DA*	**
1389	SPT RED CROSS READING ROOM	NONE	H8A	3AA	04A0A	*****	DA*	**
1381	SPT RED CROSS REC SUPV	G.01	A8A	3AA	04A0A	*****	E**	D1
1384	SPT RED CROSS REC WORKER (1)	G.01	A8A	3AA	04A0A	*****	E**	D1
7705	SPT RED CROSS RECORDS/SUPPLY	NONE	A8D	3AA	04A0A	*****	DA*	**
1379	SPT RED CROSS SECY WAIT	G.06	A8A	3AA	04A0A	*****	C**	M1
1383	SPT RED CROSS SOCIAL WORK (1)	G.01	A8A	3AA	04A0A	*****	E**	D1
6159	SPT RED CROSS STOR	NONE	A8A	3AA	04A0A	*****	AA*	**
1386	SPT RED CROSS VOLUN OFF (1)	G.01	A8A	3AA	04A0A	*****	E**	D1
1385	SPT RED CROSS VOLUN RM (1)	NONE	A8A	3AA	04A0A	*****	BA*	D1
1382	SPT RED CROSS VOLUNT (1)	NONE	A8A	3AA	04A0A	*****	BA*	D1
7719	SPT STAFF KITCHEN	NONE	A8C	3AA	10A-A	*****	E**	**
1487	SPT TRASH COLLECTION	NONE	A8F	3AA	10I-EI	*****	AA*	**
1401	SPT WELF BARBER SHOP	NONE	A8C	3CA	04A0A	*****	E**	**
1402	SPT WELF BEAUTY SHOP	NONE	A8C	3CA	04A0A	*****	E**	**
1539	SPT WELF CHILD CARE CENTER	NONE	A8A	3CA	04A0A	*****	DV*	W1
6061	SPT WELF CHILD CARE EQUIP ST	NONE	A8A	3AA	04A0A	*****	AA*	**
1398	SPT WELF EXCHANGE SALES	NONE	A8E	3CA	04A0A	*****	E**	**
1399	SPT WELF EXCHANGE STORAGE	NONE	A8E	3AA	04A0A	*****	AA*	**
1679	SPT WELF REC LOUNGE	NONE	A8A	3BA	04A0A	*****	BA*	W1
1395	SPT WELF REC LOUNGE MULTIUSE	NONE	A8A	3BA	04A0A	*****	BA*	W1
1396	SPT WELF SNACK BAR	NONE	A8E	3CA	10ICEI	*****	CA*	**
5716	SPT WELF VENDING AREA	NONE	A8E	3CA	10ICEI	*****	CA*	**
1474	SUP CONTROL ISSUE	NONE	A8E	3AA	04A0A	*****	E**	D1
1482	SUP DAY ISSUE ROOM	NONE	A8E	3AA	04A0A	*****	D**	D1
7786	SUP F/S ARCHIVES	NONE	A8F	3AA	04A0A	*****	E**	**
7788	SUP F/S EQUIP CATALOGS/MFICHE	NONE	A8F	3AA	04A0A	*****	E**	**
4105	SUP F/S STOCKMEN	G.01	A8F	3AA	04A0A	*****	E**	D1
7785	SUP F/S UCA	NONE	A8F	3AA	04A0A	*****	E**	DV
7815	SUP LINEN SOILED COLLECTION	NONE	B8F	3AA	06A-AU	*****	***	**
7727	SUP MED EQ REP ASSM	NONE	A8E	3AA	04A0A	*****	E**	D1
0131	SUP MEDICAL EQUIP REPAIR	NONE	A8E	BCF	04A0A	*****	D**	W1
7795	SUP MEDICAL EQUIPMENT REP(14)	NONE	A8E	BCF	04A0A	*****	E**	WV
0403	SUP OFFICE ASST CHIEF	G.01	A8A	3AA	04A0A	*****	E**	D1
6174	SUP OFFICE CONTRL SUPERVISOR	G.01	A8A	3AA	04A0A	*****	E**	D1
7707	SUP OFFICE FILES RECORDS	NONE	A8F	3AA	04A0A	*****	DA*	**
6112	SUP OFFICE FOREMAN	G.01	A8A	3AA	04A0A	*****	E**	D1
0421	SUP OFFICE IMPREST FUNDS	G.01	A8A	3AA	04A0A	*****	E**	D1
6172	SUP OFFICE PURCHASE CLERKS	G.01	A8A	3AA	04A0A	*****	E**	DW
0420	SUP OFFICE SUPPLY BRANCH HD	G.63	A8A	3AA	04A0A	*****	E**	D1
0423	SUP OFFICE SUPPLY CLERKS (2)	NONE	A8A	3AA	04A0A	*****	E**	DW
1473	SUP RECEIVE SHIP DOCK	NONE	M0A	***	*****	*****	C**	A1
1468	SUP RECEIVING ISSUE	NONE	M0I	3AA	04A0A	*****	D**	D1
6176	SUP SECY WAIT	G.06	A8A	3AA	04A0A	*****	E**	M1
6067	SUP STORAGE DIASTER SUPPLY	NONE	A0F	3AA	04A0A	*****	AA*	**
0331	SUP STORAGE DOSIMETRY LAB	NONE	A8F	3AA	04A0A	*****	D**	D1
1483	SUP STORAGE EQUIPMENT	NONE	M0F	3AA	04A0A	*****	AA*	**

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
0907	SUP STORAGE FLAMMABLE	NONE	M8F	3AA	06A-AI	*****	AA*	**
6068	SUP STORAGE FORMS	NONE	M0F	3AA	04A0A	*****	AA*	**
0566	SUP STORAGE GAS CYLINDERS	NONE	M0F	3AA	04A0A	*****	AA*	**
6013	SUP STORAGE GEAR	NONE	M0F	3AA	04A0A	*****	AA*	**
8507	SUP STORAGE GEN MEDICAL SM	NONE	M0F	3AA	04A0A	*****	AA*	**
1486	SUP STORAGE GENERAL EQUIP	NONE	M0F	3AA	04A0A	*****	AA*	**
0094	SUP STORAGE GENERAL MEDICAL	NONE	M0F	3AA	04A0A	*****	AA*	**
7847	SUP STORAGE GENERAL MED CL	NONE	M0F	3AA	04A0A	*****	AA*	**
7708	SUP STORAGE MOBILE/EQUIP	NONE	M0F	3AA	04A0A	*****	AA*	**
6032	SUP STORAGE PAPER	NONE	M0F	3AA	04A0A	*****	AA*	**
0332	SUP STORAGE RAD HLTH LAB	NONE	A8F	3AA	04A0A	*****	E**	D1
6205	SUP STORAGE REFRIGERATED	NONE	M8I	3AA	PRE	*****	AA*	**
0906	SUP STORAGE SECURE	NONE	M8F	3AA	04A0A	*****	AA*	**
6156	SUP STORAGE UTILITY	NONE	M8F	3AA	04A0A	*****	AA*	**
0024	SUP STORAGE VAULT	NONE	M8F	***	04A0A	*****	AA*	**
0014	TOILET FEMALE (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0196	TOILET FEMALE STAFF (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0195	TOILET MALE STAFF (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0823	TOILET PED DIAP (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0791	TOILET SHOWER (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
7810	TOILET SHOWER FEM (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
7811	TOILET SHOWER MALE (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0009	TOILET SPECIMEN (1 WC)	D.21	E8C	3AJ	10ICEI	*****	CA*	**
0031	TOILET STAFF (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0482	TOILET STAFF (1 WC)	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0412	TOILET STAFF FEM 2WC 2LAV	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0411	TOILET STAFF MALE 2WC 2LAV	NONE	E8C	3AJ	10ICEI	*****	CA*	**
0454	TOILET UNISEX (1 WC)	D.21	E8C	3AJ	10ICEI	*****	CA*	**
1231	TOILET WHEELCHAIR (1 WC)	NONE	E8C	3AJ	10ICEI	*****	AA*	**
0077	TOILET X RAY (1 WC)	NONE	E8C	3AJ	10ICEI	*****	AA*	**
9558	TRAINING/CLASSROOM 08 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9559	TRAINING/CLASSROOM 09 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9560	TRAINING/CLASSROOM 10 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9561	TRAINING/CLASSROOM 11 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9562	TRAINING/CLASSROOM 12 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9563	TRAINING/CLASSROOM 13 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9564	TRAINING/CLASSROOM 14 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9565	TRAINING/CLASSROOM 15 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9566	TRAINING/CLASSROOM 16 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9567	TRAINING/CLASSROOM 17 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9568	TRAINING/CLASSROOM 18 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9569	TRAINING/CLASSROOM 19 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9570	TRAINING/CLASSROOM 20 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9571	TRAINING/CLASSROOM 21 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9572	TRAINING/CLASSROOM 22 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9573	TRAINING/CLASSROOM 23 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9574	TRAINING/CLASSROOM 24 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9575	TRAINING/CLASSROOM 25 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9576	TRAINING/CLASSROOM 26 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9577	TRAINING/CLASSROOM 27 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9578	TRAINING/CLASSROOM 28 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9579	TRAINING/CLASSROOM 29 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9580	TRAINING/CLASSROOM 30 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9581	TRAINING/CLASSROOM 31 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9582	TRAINING/CLASSROOM 32 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9583	TRAINING/CLASSROOM 33 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9584	TRAINING/CLASSROOM 34 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9585	TRAINING/CLASSROOM 35 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9586	TRAINING/CLASSROOM 36 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9587	TRAINING/CLASSROOM 37 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9588	TRAINING/CLASSROOM 38 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9589	TRAINING/CLASSROOM 39 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9590	TRAINING/CLASSROOM 40 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9591	TRAINING/CLASSROOM 41 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9592	TRAINING/CLASSROOM 42 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9593	TRAINING/CLASSROOM 43 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9594	TRAINING/CLASSROOM 44 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9595	TRAINING/CLASSROOM 45 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9596	TRAINING/CLASSROOM 46 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9597	TRAINING/CLASSROOM 47 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9598	TRAINING/CLASSROOM 48 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
9599	TRAINING/CLASSROOM 49 SEAT	G.07	A8A	3BA	04A0A	*****	FV*	T1
7834	VET ADM OFFICE	NONE	A8A	3AA	04A0A	*****	E**	W1
7826	VET CLERK/RECEPT	NONE	A8A	3AA	04A0A	*****	E**	W1
7837	VET DARK ROOM	C.04	B8A	3AA	10G-AI	*****	C**	W1
7825	VET EXAM ROOM	NONE	A8A	3AA	04A0A	*****	E**	W1
7836	VET EXAM ROOM	D.03	A8A	3AA	04A0A	*****	E**	W1
7830	VET ISOL KENNEL	NONE	P0A	3CA	04A0A	*****	E**	W1
7831	VET KENNEL	NONE	P0A	3CA	04A0A	*****	E**	W1
7827	VET LAB	NONE	B8E	3AA	06A-AI	*****	F**	W1
7835	VET OFFICER OFFICE	G.01	A8A	3AA	04A0A	*****	E**	D1
7832	VET STORAGE	NONE	P0F	3AA	04A0A	*****	E**	W1
7829	VET SURGERY	NONE	D9B	BBE	15E+CG	*****	HV1	T1
7833	VET TECH OFFICE (3 MAN)	NONE	A8A	3AA	04A0A	*****	E**	W1
7828	VET X-RAY	NONE	A9C	4AF	04B1A	*****	BM*	W1
9901	WAITING ROOM 01 SEATS	NONE	H8A	***	04A0A	*****	C**	**
9902	WAITING ROOM 02 SEATS	NONE	H8A	***	04A0A	*****	C**	**
9903	WAITING ROOM 03 SEATS	NONE	H8A	***	04A0A	*****	C**	**
9904	WAITING ROOM 04 SEATS	NONE	H8A	***	04A0A	*****	C**	**
9905	WAITING ROOM 05 SEATS	NONE	H8A	***	04A0A	*****	C**	**
9906	WAITING ROOM 06 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9907	WAITING ROOM 07 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9908	WAITING ROOM 08 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9909	WAITING ROOM 09 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9910	WAITING ROOM 10 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9911	WAITING ROOM 11 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9912	WAITING ROOM 12 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9913	WAITING ROOM 13 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9914	WAITING ROOM 14 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9915	WAITING ROOM 15 SEATS	NONE	H8A	***	04A0A	*****	C**	A1

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9916	WAITING ROOM 16 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9917	WAITING ROOM 17 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9918	WAITING ROOM 18 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9919	WAITING ROOM 19 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9920	WAITING ROOM 20 SEATS	NONE	H8A	***	04A0A	*****	C**	A1
9921	WAITING ROOM 21 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9922	WAITING ROOM 22 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9923	WAITING ROOM 23 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9924	WAITING ROOM 24 SEATS	NONE	H8E	***	04A0A	*****	C**	A1
9925	WAITING ROOM 25 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9926	WAITING ROOM 26 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9927	WAITING ROOM 27 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9928	WAITING ROOM 28 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9929	WAITING ROOM 29 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9930	WAITING ROOM 30 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9931	WAITING ROOM 31 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9932	WAITING ROOM 32 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9933	WAITING ROOM 33 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9934	WAITING ROOM 34 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9935	WAITING ROOM 35 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9936	WAITING ROOM 36 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9937	WAITING ROOM 37 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9938	WAITING ROOM 38 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9939	WAITING ROOM 39 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9940	WAITING ROOM 40 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9941	WAITING ROOM 41 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9942	WAITING ROOM 42 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9943	WAITING ROOM 43 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9944	WAITING ROOM 44 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9945	WAITING ROOM 45 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9946	WAITING ROOM 46 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9947	WAITING ROOM 47 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9948	WAITING ROOM 48 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9949	WAITING ROOM 49 SEATS	NONE	H8E	***	04A0A	*****	C**	A2
9950	WAITING ROOM 50 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9951	WAITING ROOM 51 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9952	WAITING ROOM 52 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9953	WAITING ROOM 53 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9954	WAITING ROOM 54 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9955	WAITING ROOM 55 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9956	WAITING ROOM 56 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9957	WAITING ROOM 57 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9958	WAITING ROOM 58 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9959	WAITING ROOM 59 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9960	WAITING ROOM 60 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9961	WAITING ROOM 61 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9962	WAITING ROOM 62 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9963	WAITING ROOM 63 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9964	WAITING ROOM 64 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9965	WAITING ROOM 65 SEATS	NONE	H8E	***	04A0A	*****	C**	A3

BSU	ROOM NAME	PLATE	ARCH	DR	MECH	GAS	ELEC	
9966	WAITING ROOM 66 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9967	WAITING ROOM 67 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9968	WAITING ROOM 68 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9969	WAITING ROOM 69 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9970	WAITING ROOM 70 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9971	WAITING ROOM 71 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9972	WAITING ROOM 72 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9973	WAITING ROOM 73 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9974	WAITING ROOM 74 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9975	WAITING ROOM 75 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9976	WAITING ROOM 76 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9977	WAITING ROOM 77 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9978	WAITING ROOM 78 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9979	WAITING ROOM 79 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9980	WAITING ROOM 80 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9981	WAITING ROOM 81 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9982	WAITING ROOM 82 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9983	WAITING ROOM 83 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9984	WAITING ROOM 84 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9985	WAITING ROOM 85 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9986	WAITING ROOM 86 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9987	WAITING ROOM 87 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9988	WAITING ROOM 88 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9989	WAITING ROOM 89 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9990	WAITING ROOM 90 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9991	WAITING ROOM 91 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9992	WAITING ROOM 92 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9993	WAITING ROOM 93 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9994	WAITING ROOM 94 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9995	WAITING ROOM 95 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9996	WAITING ROOM 96 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9997	WAITING ROOM 97 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9998	WAITING ROOM 98 SEATS	NONE	H8E	***	04A0A	*****	C**	A3
9999	WAITING ROOM 99 SEATS	NONE	H8E	***	04A0A	*****	C**	A3

REFERENCES

The following publications may be obtained from: National Fire Protection Association (NFPA), Inc., Batterymarch Park, Quincy, MA 02269.

NFPA-10	Portable Extinguishers
NFPA-13	Sprinkler Systems
NFPA-17	Dry Chemical Extinguisher Systems
NFPA-50	Bulk Oxygen Systems and NFPA 56B, Respiratory Therapy
NFPA-54	National Fuel Gas Code
NFPA-58	LP-Gas Storage, Use
NFPA-70	National Electrical Code
NFPA-77A	Local Protective System
NFPA-72E	Automatic Fire Detectors
NFPA-96	Vapor Removal Cooking Equipment
NFPA-99	Health Care Facilities
NFPA-101	Life Safety Code
NFPA-403	Aircraft Rescue Services
NFPA-701	Fire Tests, Textiles, Films

The following publications may be obtained from: Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120. Department of Defense activities must use the Military Standard Requisitioning and Issue Procedure (MILSTRIP), using the stock control number obtained from NAVSUP Publication 2002.

NAVFAC DM-1.02	Materials and Building Components
NAVFAC DM-1.03	Architectural Acoustics
NAVFAC DM-1.04	Earth-Sheltered Facilities
NAVFAC DM-1.06	Building Thermal Mass Affects
NAVFAC DM-2.01	Structural Engineering, General Requirements
NAVFAC DM-2.02	Structural Engineering, Loads
NAVFAC DM-2.03	Structural Engineering, Steel Structures

NAVFAC DM-2.04	Structural Engineering, Concrete Structures
NAVFAC DM-2.09	Masonry Structural Design for Buildings
NAVFAC DM-3.01	Mechanical Engineering, Plumbing Systems
NAVFAC DM-3.03	Mechanical Engineering, Heating, Ventilating, Air Conditioning, and Dehumidifying Systems
NAVFAC DM-3.05	Mechanical Engineering, Compressed Air and Vacuum Systems
NAVFAC DM-3.06	Mechanical Engineering, Central Heating Plants
NAVFAC DM-3.08	Mechanical Engineering, Exterior Distribution of Utility Steam, High Temperature Water (HTW), Chilled Water (CHW), Fuel Gas, and Compressed Air
NAVFAC DM-3.10	Mechanical Engineering, Noise and Vibration Control for Mechanical Equipment
NAVFAC DM-3.16	Mechanical Engineering, Thermal Storage Systems
NAVFAC DM-4.01	Electrical Engineering, Preliminary Design Considerations
NAVFAC DM-4.02	Electrical Engineering, Power Distribution Systems
NAVFAC DM-4.03	Electrical Engineering, Switchgear and Relaying
NAVFAC DM-4.04	Electrical Engineering, Electrical Utilization Systems
NAVFAC DM-4.06	Electrical Engineering, Lightning Protection
NAVFAC DM-4.07	Electrical Engineering, Wire Communication and Signal Systems
NAVFAC DM-4.10	Electrical Engineering, Cathodic Protection
NAVFAC DM-21.01	Airfield Geometric Design Criteria
NAVFAC DM-23.01	Airfield Lighting
NAVFAC P-89	Engineering Weather Data
NAVFAC P-355	Seismic Design for Buildings

Military Handbooks, Military/Federal and NAVFAC Guide Specifications are available to all parties, free of charge, from the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120; telephone: Autovon (DOD only): 442-3321; Commercial: (215) 697-3321.

MIL-HDBK-1008	Military Handbook, Fire Protection for Facilities, Engineering, Design and Construction
MIL-STD-285	Attenuation Measurements for Enclosures, Electromagnetic Shielding for Electronic Test Purposes, Method of

The following publications may be obtained from: National Council on Radiation Protection and Measurements Publications, P.O. Box 30175, Washington, DC 20014

NCRP Report 35	Dental X-Ray Protection
NCRP Report 49	Medical X-Ray Protection

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